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EU legislation does not establish different classes of narcotic or psychotropic substances. However, the United Nations ("UN") Single Convention on Narcotic Drugs of 1961 and the UN Convention on Psychotropic Substances of 1971 ("UN Conventions") codify internationally applicable control measures to ensure the availability of narcotic drugs and psychotropic substances for medical and scientific purposes. The individual EU member states are all signatories to these UN Conventions. All signatories have a dual obligation to ensure that these substances are available for medical purposes and to protect populations against abuse and dependence. The UN Conventions regulate narcotic drugs and psychotropic substances as Schedule I, II, III, IV substances with Schedule II substances presenting the lowest relative risk of abuse among such substances and Schedule I and IV substances considered to present the highest risk of abuse. The Risks Related to the Development of Our Product Candidates ~~Termination of these agreements~~ **• If we are not able to obtain required regulatory approvals or for reduction any of our elimination of product candidates, our or rights under these the agreements may result in approved labels are not sufficiently differentiated from other competing products, we will not be able to commercialize them and our ability to generate revenue our or having profits or to negotiate raise future capital could be limited.** **• Disruptions at the FDA, the EMA and other government agencies, including those caused by funding shortages or global health concerns could hinder their ability to hire, retain or deploy key leadership and other personnel, or otherwise prevent new or modified products from being developed, approved, reinstated agreements with less favorable terms or cause us to lose our or commercialized in a timely manner rights under these agreements, including our or at all rights to important intellectual property or technology.** The scope of our intellectual property may be reduced or may need to be reduced due to third-party intellectual property claims. Our competitors may have filed, and may in the future file, patent applications covering technology similar to ours. Any such patent application may have priority over our patent applications, which could **negatively impact our business** further require us to obtain rights to issued patents covering such technologies. **• If another party has filed a U.S. patent application on inventions similar to ours that claims priority to an application filed prior to March 16, 2013, we may have to participate in an interference proceeding declared by the USPTO to determine priority of invention in the United States. The costs of these proceedings could be substantial, and it is possible that such efforts would be unsuccessful if, unbeknownst to us, the other party had independently arrived at the same or similar invention prior to our own invention, resulting in a loss of our U.S. patent position with respect to such inventions. In addition, changes enacted on March 16, 2013, to the U.S. patent laws under the Leahy-Smith Act resulted in the United States changing from a "first to invent" country to a "first to file" country. As a result, we may lose the ability to obtain a patent if another party files with the USPTO first and could become involved in proceedings before the USPTO to resolve disputes related to inventorship. We may also become involved in similar proceedings in other jurisdictions. Furthermore, recent changes in U.S. patent law under the Leahy-Smith Act allow for post-issuance challenges to U.S. patents, including ex parte re-examinations, inter partes reviews and post-grant reviews. There is significant uncertainty as to how the new laws will be applied. If our U.S. patents are challenged using such procedures, we may not prevail, possibly resulting in altered or diminished claim scope or loss of patent rights altogether. Similarly, some countries, notably in Europe, also have post-grant opposition proceedings or nullity proceedings that can result in changes in scope or cancellation of patent claims. We may be subject to claims by third parties asserting that we or our employees have misappropriated their intellectual property or claiming ownership of what we regard as our own intellectual property. The FDA and foreign regulatory authorities closely regulate promotional materials and other promotional activities. Even if the FDA or foreign regulatory authorities initially approve product labeling that includes a description of our improved attribute claims, the FDA and foreign regulatory authorities may object to our marketing claims and product advertising campaigns. Failure to comply with the FDA's and comparable foreign regulatory authorities' promotional, marketing and advertising laws and regulations could lead to the issuance of warning letters, cyber letters, or untitled letters, adverse publicity, the requirement for dear-health-care-provider letters or other corrective information, fines and other monetary penalties, civil or criminal prosecution, including False Claims Act liability, restrictions on our operations and other operating requirements through consent decrees or corporate integrity agreements, debarment, exclusion from participation in federal health care programs and refusal of government contracts or future orders under existing contracts, among other consequences. Any of these consequences would harm the commercial success of our products. Further, our promotional materials, statements and training methods must comply with the FDA's and comparable foreign regulatory authorities' prohibition of the promotion of unapproved, or off-label, use. Any regulatory approval that the FDA grants is limited to those specific diseases and indications for which a product is deemed to be safe and effective by FDA. Similar requirements apply in foreign jurisdictions. For example, the FDA-approved label for AZSTARYS is limited to the acute treatment of ADHD in patients 6 years of age and older, and the FDA-approved label for APADAZ is limited to the short-term (no more than 14 days) management of acute pain severe enough to require an opioid analgesic and for which alternative treatments are inadequate. Physicians may use our products off-label as the FDA does not restrict **conclude that or our product candidates satisfy** regulate a physician's independent choice of treatment within the **requirements** practice of medicine. However, if the FDA or **for foreign-selected** regulatory **pathways** authorities determine that our promotional materials, statements or training constitutes promotion of an off-label use, it could request that we modify our promotional materials, statements or training methods or subject us to regulatory or enforcement actions, such as the issuance of an untitled letter, a warning letter, injunction, seizure, civil fine, disgorgement of money, operating restrictions or criminal penalties. We may also be subject to actions by other governmental entities or private parties, such as the False Claims Act, civil whistleblower or "qui tam" actions. It is also possible that other federal, state or foreign enforcement authorities might take action if they consider our promotional or training materials to constitute promotion of an off-label use, which could result in significant fines or penalties under other statutory authorities, such as laws prohibiting false claims for reimbursement. In that event, our reputation could be damaged and adoption of the products could be impaired. In addition, the off-label use of our products may increase the risk of product liability claims. Product liability claims are expensive to defend and could divert our management's attention, result in substantial damage awards against us and harm our reputation. Any trademarks we may obtain may be infringed or successfully challenged, resulting in harm to our business. We expect to rely on trademarks as one means to distinguish our product candidates that are approved for marketing from the products of our competitors. We have registered trademarks, including those for LAT, Zevra, and OLPRUVA. In addition, we have solicited and applied for trademarks for the Zevra logo and several potential trade names and logos for future product candidates. Third parties may oppose or attempt to cancel our trademark applications or trademarks, or otherwise challenge our use of the trademarks. If our trademarks are successfully challenged, we could be forced to rebrand our products, which could result in loss of brand recognition and could require us to devote resources to advertising and marketing new brands. Our competitors may infringe our trademarks and we may not have adequate resources to enforce our trademarks. If we are unable to protect the confidentiality of our trade secrets, our business and competitive position would be harmed. In addition to seeking patent and trademark protection for our product candidates, we also rely on trade secrets, including unpatented know-how, know-how, technology and other proprietary information, to maintain our competitive position. We seek to protect our trade secrets, in part, by entering into non-disclosure and confidentiality agreements with parties who have access to them, such as our employees, corporate collaborators, outside scientific collaborators, contract manufacturers, consultants, advisors and other third parties. We also enter into confidentiality and invention or patent assignment agreements with our employees and consultants. Despite these efforts, any of these parties may breach the agreements and disclose our proprietary information, including our trade secrets. Further, we may need to share our trade secrets and confidential know-how with future business partners, collaborators, contractors and others located in countries at heightened risk of theft of trade secrets, including through direct intrusion by private parties or actors in other countries, and those affiliated with or controlled by state actors. Monitoring unauthorized uses and disclosures of our intellectual property, including our trade secrets, is difficult, and we do not know whether the steps we have taken to protect our intellectual property will be effective. In addition, we may not be able to obtain adequate remedies for any such breaches. Enforcing a claim that a party illegally disclosed or misappropriated a trade secret is difficult, expensive and time-consuming, and the outcome is unpredictable. In addition, some courts inside and outside the United States are less willing or unwilling to protect trade secrets. Moreover, our competitors may independently develop or reverse engineer knowledge, methods, know-how and know-how equivalent to our trade secrets. Competitors could purchase our products and replicate some or all of the competitive advantages we derive from our development efforts for technologies on which we do not have patent protection. If any of our trade secrets were to be lawfully obtained or independently developed by a competitor, we would have no right to prevent them, or those to whom they communicate such trade secrets, from using that technology or information to compete with us. If any of our trade secrets were to be disclosed to or independently developed by a competitor, our competitive position would be harmed. We may not be able to protect our intellectual property rights throughout the world. Patents are of national or regional effect, and filing, prosecuting and defending patents on all of our products and technologies throughout the world would be prohibitively expensive. As such, our intellectual property rights in some countries outside the United States can be less extensive than those in the United States and we may not be able to prevent third parties from practicing our inventions in all countries outside the United States, or from selling or importing products made using our inventions in and into the United States or other jurisdictions. Competitors may use our technologies in jurisdictions where we have not obtained patent protection to develop their own products or technology and may export otherwise infringing products or technology to territories where we have patent protection, but enforcement rights are not as strong as those in the United States. These products may compete with our products and technologies, and our patents or other intellectual property rights may not be effective or sufficient to prevent them from competing. Further, the legal systems of certain countries, particularly certain developing countries, do not favor the enforcement of patents and other intellectual property protection, particularly those relating to pharmaceuticals or biologics, which could make it difficult for us to stop the infringement of our patents or marketing of competing products in violation of our proprietary rights generally. Proceedings to enforce our patent rights in other jurisdictions could result in substantial costs and divert our efforts and attention from other aspects of our business, could put our patents at risk of being invalidated or interpreted narrowly and our patent applications at risk of not issuing and could provoke third parties to assert claims against us. We may not prevail in any such lawsuits that we initiate and the damages and other remedies awarded, if any, may not be commercially meaningful. Similarly, if our trade secrets are disclosed in another jurisdiction, competitors worldwide could have access to our proprietary information and we may be without satisfactory recourse. Such disclosure could have a material adverse effect on our business. Moreover, our ability to protect and enforce our intellectual property rights may be adversely affected by unforeseen changes in intellectual property laws of other countries. In addition, certain developing countries, including China and India, have compulsory licensing laws under which a patent owner may be compelled to grant licenses to third parties. In those countries, we and our licensors may have limited remedies if patents are infringed or if we or our licensors are compelled to grant a license to a third party, which could materially diminish the value of those patents. In addition, many countries limit the enforceability of patents against government agencies or government contractors. This could limit our potential revenue opportunities. Accordingly, our efforts to enforce our intellectual property rights around the world may be inadequate to obtain a significant commercial advantage from the intellectual property that we develop or license. In 2012, the European Patent Package, or EU Patent Package, regulations were passed with**

the goal of providing a single pan-European Unitary Patent and a new European Unified Patent Court, or UPC, for litigation involving European patents. Implementation of the EU Patent Package will likely occur in the first half of 2023. Under the UPC, all European patents, including those issued prior to ratification of the European Patent Package, will by default automatically fall under the jurisdiction of the UPC. The UPC will provide our competitors with a new forum to centrally revoke our European patents, and allow for the possibility of a competitor to obtain pan-European injunctions. It will be several years before we will understand the scope of patent rights that will be recognized and the strength of patent remedies that will be provided by the UPC. Under the EU Patent Package as currently proposed, we will have the right to opt our patents out of the UPC over the first seven years of the court's existence, but doing so may preclude us from realizing the benefits of the new unified court. Our decision to seek approval of our product candidates under the 505 (b) (2) NDA pathway, the approval process for our product candidates will likely take significantly longer, cost significantly more and entail significantly greater complications and risks than anticipated, and the FDA may not ultimately approve our product candidates. Clinical drug development involves a lengthy and expensive process, with an uncertain outcome. We may incur additional costs or experience delays in completing, or ultimately be unable to complete, the development and commercialization of our product candidates. If we experience delays or difficulties in the enrollment of subjects in clinical trials, our receipt of necessary regulatory approvals could be delayed or prevented. Interim, topline, or preliminary data from our clinical trials that we announce or publish from time to time may change as more patient data become available and are subject to audit and verification procedures that could result in materials changes in the final data. We may not be able to obtain or maintain orphan drug designations which we pursue for any of our product candidates, and we may be unable to maintain the benefits associated with orphan drug designation, including the potential for market exclusivity. Certain of our approved products and product candidates contain controlled substances, the manufacture, use, sale, importation, exportation, prescribing and distribution of which are subject to regulation by the DEA and other regulatory agencies. Our products and product candidates may be associated with serious adverse events, undesirable side effects or have other properties that could halt their clinical development, prevent their regulatory approval, limit their commercial potential or result in significant negative consequences. We may expend our limited resources to pursue a particular product candidate or indication and fail to capitalize on product candidates or indications that may be more profitable or for which there is a greater likelihood of success. If the EAP is terminated prior to commercialization of arimoclochol in the EU, if available approved, may increase the it will have a material adverse effect on our business, results of operations, cash flows, financial condition and / or prospects. Risks Related to Our Business, Our Financial Position and Our Capital Needs • Our future results will suffer if we do not effectively manage our operations. A variety of risks associated with international operations could materially adversely affect our business. We may not be able to retain suppliers or distributors, or suppliers or distributors may seek to modify contractual relationships with us, which could have an adverse effect on our business and operations. Third parties may terminate or alter existing contracts or relationships with us. If we fail to maintain effective internal controls over financial reporting and disclosure controls and procedures, we may not be able to accurately report our financial results or report them in a timely manner, which may adversely affect investor confidence in us and, as a result, the value of our common stock. We have incurred significant recurring negative and operating cash flows. We cannot predict if we will incur positive or negative net operating cash flows over the next several years, and we may never achieve or maintain profitability. We may need additional funding to pursue our business objectives. If we are unable to raise capital when needed, we could be forced to delay, reduce or altogether cease our development programs or commercialization efforts or cease operations altogether. Risks Related to Our Dependence on Third Parties • We rely on and expect to continue to rely on third parties to conduct our clinical trials for our product candidates, and those third parties may not perform satisfactorily, including failing to meet deadlines for the completion of such trials. The facilities used by our contract manufacturers to manufacture our approved products, and any of our product candidates are subject to review by the FDA or comparable foreign regulatory authorities pursuant to inspections that will be conducted after we submit our marketing application to the FDA or the EMA, and such inspections could result in findings that lead to failure to obtain FDA or comparable foreign approval of such marketing applications. Our approved products that we are commercializing, and product candidates that we are currently developing, or may develop in the future, may compete with other product candidates and drugs for access to manufacturing facilities, and we may be unable to obtain access to these facilities on favorable terms. We have entered into collaborations with Commave, to develop, manufacture and commercialize AZSTARYS worldwide. In addition, we may seek collaborations with third parties for the development or commercialization of our other product candidates, or in other territories. If those collaborations are not successful, we may not be able to capitalize on the market potential of AZSTARYS or any of our other product candidates, if approved. If we are not able to establish collaborations for our product candidates, we may have to alter our development and commercialization plans. Risks Related to Our Intellectual Property • If we are unable to obtain and maintain trade secret protection or patent infringement prosecution for our technology, our approved products or our product candidates, or if the scope of the patent protection obtained is not sufficiently broad, our competitors could develop and commercialize technology and drugs similar or identical to ours, and our ability to successfully commercialize our technology, our approved products, or our product candidates, if approved, may be impaired. Changes in patent law in the United States and other jurisdictions could alter or diminish the value of patents in general, thereby impairing our ability to protect our products and technologies. We may become involved in suits, lawsuits to protect or enforce our patents or other intellectual property, which could be expensive, time consuming and unsuccessful. Third parties may initiate legal proceedings alleging that we are infringing their intellectual property rights, the outcome of which would delay be uncertain and could significantly harm our business. Intellectual property litigation could cause us to spread substantial resources and distract our personnel from their FDA's normal responsibilities. We may need to license intellectual property from third parties, and such licenses may not be available or may not be available on commercially reasonable terms. If we or our third-party licensors fail to comply with our obligations in our intellectual property licenses and funding arrangements with third parties, we could lose rights that are important to our business. The scope of our intellectual property may be reduced or may need to be reduced due to third-party intellectual property claims. We may be subject to claims by third parties asserting that we or our employees have misappropriated their intellectual property or claiming ownership of what we regard as our own intellectual property. Any trademarks we may obtain may be infringed or successfully challenged, resulting in harm to our business. If we are unable to protect the confidentiality of our trade secrets, our business and competitive position would be harmed. We may not be able to protect our intellectual property rights throughout the world. Our decision to seek approval of our product candidates under certain regulatory pathways, such as product candidates. Regarding any NDA that we may submit under the 505 (b) (2) NDA pathway for, if there are patents that claim the approved drug contained in our product candidates and referenced in our 505 (b) (2) NDA, we must certify to the FDA and notify the patent holder that any patents listed for the approved drug in the FDA's Orange Book publication are invalid. may increase unenforceable or will not be infringed by the risk that manufacture, use or sale of our prodrug. If a patent infringement lawsuit is filed against us within 45 days of its receipt of notice of our certification, the which would delay FDA or comparable foreign regulatory authorities' approval of such product candidates. Risks Related to Regulatory Approval of Our Product Candidates and Other Legal Compliance Matters • Failure to obtain marketing approval in international jurisdictions would prevent our approved products, and any of our other product candidates from being marketed abroad. A variety of risks associated with marketing our approved products, and any of our other product candidates, if approved, internationally, could affect our business. Our approved products are, and any of our product candidates for which we obtain marketing approval will remain subject to significant post-marketing regulatory requirements and oversight. Our employees, independent contractors, principal investigators, CROs, consultants, commercial collaborators, contract manufacturers, service providers and other vendors may engage in misconduct or other improper activities, including non-compliance with regulatory standards and requirements. Our current and future relationships with healthcare professionals, principal investigators, consultants, customers and third-party payors in the United States and elsewhere may be subject, directly or indirectly, to applicable anti-kickback, fraud and abuse, false claims, physician payment transparency, and other healthcare laws and regulations, which could expose us to penalties. Recently enacted and future legislation may increase the difficulty and cost for us to obtain marketing approval of our product candidates and increase the cost to commercialize our approved products, and any of our product candidates that may be approved in the future and affect the prices thereof. If we fail to comply with our reporting and payment obligations under the Medicaid Drug Rebate Program or other governmental pricing programs in which we participate, we could be subject to additional reimbursement requirements, penalties, sanctions and fines, which could have a material adverse effect on our business, financial condition, results of operations and growth prospects. Governments outside the United States tend to impose strict price controls, which may affect our revenue, if any. If we fail to comply with environmental, health and safety laws and regulations, we could become subject to fines or penalties or incur costs that could harm our business. If our security measures are compromised now, or in the future, or the security, confidentiality, integrity or availability of our information technology systems, software, services, communications or data is automatically compromised, limited or fails, this could result in a material adverse impact, including without limitation, a material interruption to our operations, harm to our reputation, significant fines, penalties and liability, breach or a triggering of data protection laws, privacy policies and data protection obligations, loss of customers or sales, or material disruption of our clinical trials, commercialization or other business activities. Failure or perceived failure to comply with existing or future laws, regulations, contracts, self-regulatory schemes, policies, standards and other obligations related to data privacy or security could lead to government enforcement actions (which could include civil or criminal fines or penalties), a disruption of our clinical trials or commercialization of our products, private litigation, other liabilities and / or adverse publicity. Compliance, or the failure to comply with such obligations, could increase the costs of our products, could limit their use, and could otherwise negatively affect our operating results and business. We are subject to complex and changing laws and regulations, which exposes us to potential liabilities, increased costs and other adverse effects on our business. Risks Related to Employee Matters and Managing Our Growth • Our future success depends on our ability to retain key executives and to attract, retain and motivate qualified personnel. Risks Related to Ownership of Our Common Stock and Our Status as a Public Company • The trading price of the shares of our common stock is likely to be volatile, and purchasers of our common stock could incur substantial losses. Future sales and issuances of equity and debt could result in additional dilution to our stockholders. Sales of a substantial number of shares of our common stock in the public market could cause the market price of our common stock to drop significantly, even if our business is doing well. Anti-takeover provisions in our amended and restated certificate of incorporation and amended and restated bylaws, as well as provisions of Delaware law and the terms of some of our contracts, might discourage, delay or prevent a change in control of our company or changes in our board of directors or management and, therefore, depress the price of our common stock. If we engage in acquisitions to grow our business, we will incur a variety of costs and may potentially face numerous risks that could adversely affect our business and operations and cause our stock price to decline. We could be negatively affected as a result of the actions of activist stockholders, which could be disruptive and costly and may conflict with or disrupt the strategic direction of our business. We may be subject to securities litigation, class action and derivative lawsuits, which could result in substantial

costs and could divert management attention away from approving our 505 (b) (2) NDA until the other earliest business concerns. • Our amended and restated certificate of incorporation provides that 30 months expiration of the Court patent settlement of **Chancery of the lawsuit State of Delaware is the exclusive forum** or for substantially all disputes between us and our stockholders, which could limit our stockholders' ability to obtain a court decision in the infringement case that is favorable to judicial forum for disputes with us or our such shorter directors, officers or other employees. • We might not be able to utilize a significant portion of or our longer period net operating loss carry forwards, which could adversely affect our profitability. • Changes in tax laws or regulations that are applied adversely to us may have a material adverse effect on our business, cash flow, financial condition or results of operations. General Risk Factors • An active trading market for our common stock may not be sustained and you may not be able to resell your shares of our common stock for a profit, if at all. • If equity research analysts do not publish research or reports, or publish unfavorable research or reports, about us, our business or our market, our stock price and trading volume could decline. • Because we do not anticipate paying any cash dividends on our common stock in the foreseeable future, capital appreciation, if any, will be your sole source of gains and you may never receive a return on your investment. • We incur increased costs and demands upon management as may be ordered a result of being a public company. • Adverse developments affecting the financial services industry, including events or concerns involving liquidity, defaults, or non-performance by financial institutions a court. Such actions are routinely filed by patent owners. Accordingly, could adversely affect we may invest considerable time and expense in the development of our product candidates only to be subject to significant delay and patent litigation before our product candidates may be commercialized. We may not be successful in defending any patent infringement claim. Even if we are found not to infringe, or our a plaintiff business, financial conditions or results of operations. You should carefully consider all the risk factors and uncertainties described below, in addition to other information contained in this Annual Report on Form 10-K, including the section of this report titled "Management's patent claims Discussion and Analysis of Financial Condition and Results of Operations" and our financial statements and related notes, before investing in our common stock. If any of the following risks materialize, our business, financial condition and results of operations could be seriously harmed. This Annual Report on Form 10-K also contains forward-looking statements that involve risks and uncertainties. Our actual results could differ materially from those anticipated in the forward-looking statements because of factors that are described below found invalid or unenforceable, defending any such infringement claim would be expensive and time elsewhere in this Annual Report on Form 10-K consuming, and would delay launch of our product candidates and distract management from their normal responsibilities. 29 If Risks Related to the Commercialization of Our Partnered Products and Product Candidates If we are unable to establish effective sales, marketing and distribution capabilities for our approved products or product candidates, if approved, we may not be successful in commercializing any approved product candidate in the United States. While we entered into the AZSTARYS License Agreement to establish a collaboration for or the commercialization of AZSTARYS and any other jurisdictions. We of our product candidates which are subject to such agreement, we currently have limited marketing and sales experience. In order to commercialize OLPRUVA for oral suspension in the U.S. for the treatment of certain patients with UCDs and MIPLYFFA, an orally-delivered treatment for NPC, we have added marketing, sales, medical affairs, distribution, managerial and other non-technical capabilities, or have made arrangements with third parties to perform these services. For any of our other product candidates that receive marketing approval we may have to augment our commercial capabilities or make arrangements with third parties to perform additional services, and we may not be successful in doing any of the foregoing. Building and maintaining a targeted specialty sales force is expensive and time consuming. Any failure or delay in the development of our internal sales, marketing and distribution capabilities would adversely impact our commercialization efforts. We may choose to collaborate with third parties that have their own sales forces and established distribution systems, in lieu of or to augment any sales force and distribution systems we may create. If we are unable to enter into collaborations with third parties for the commercialization of approved product candidates, if any, on acceptable terms or at all, or if any such collaborator does not devote sufficient resources to the commercialization of our product or otherwise fails in commercialization efforts, we may not be able to successfully commercialize our product candidates that receive marketing approval. If we are not successful in commercializing our product candidates that receive marketing approval, either on our own or through collaborations with one or more third parties, our potential future revenue will be materially and adversely impacted. Establishing our own sales, marketing and distribution capabilities, involves a number of risks. For example, recruiting and training a sales force is expensive and time consuming and could delay any product launch. If the commercial launch of a product candidate for which we recruit a sales force and establish marketing capabilities is delayed or does not occur for any reason, we would have prematurely or unnecessarily incurred these commercialization expenses. This may be costly, and our investment would be lost if we cannot retain or reposition our sales and marketing personnel. Factors that may inhibit our efforts to commercialize our approved products and product candidates on our own include: • our inability to recruit, train and retain adequate numbers of effective sales and marketing personnel; • our inability to access government and commercial health plan formularies or secure preferred coverage and adequate reimbursement levels; • the inability of sales personnel to obtain access to physicians or achieve adequate numbers of physicians to prescribe any future produg products; • the lack of complementary drugs to be offered by sales personnel, which may put us at a competitive disadvantage relative to companies with more extensive product lines; • liability for personnel, including sales personnel, failing to comply with applicable legal requirements; and • costs associated with maintaining compliance with the FDA's marketing and promotional requirements, including ongoing training and monitoring, as well as unforeseen costs and expenses associated with creating an independent sales and marketing organization. If we decide to enter into arrangements with third parties to perform these services for certain of our product candidates, our product revenue and our profitability, if any, are likely to be lower than if we were to sell, market and distribute any product candidates that we develop ourselves. In addition, we may not be successful in entering into arrangements with third parties to sell, market and distribute our product candidates in the future, or may be unable to do so on terms that are favorable to us. We likely will have little control over such third parties, including Corium, and any of them may fail to devote the necessary resources and attention to sell and market our approved products, or any of our product candidates, if approved, effectively. Further, we may be liable for conduct of third parties, including Corium, acting on our behalf, including failure to comply with legal requirements applicable to sales and marketing of our product or product candidates, if approved. If we do not establish sales, marketing and distribution capabilities successfully, either on our own or in collaboration with third parties, we will not be successful in commercializing our approved products, or any of our product candidates, if approved. Our 30 Our approved products, or any of our product candidates that may receive marketing approval, may fail to achieve the degree of market acceptance by physicians, patients, third-party payors and others in the medical community necessary for commercial success. Our approved products, or any of our product candidates that may receive marketing approval, may fail to gain sufficient market acceptance by physicians, patients, third-party payors and others in the medical community. If our approved products, or any of our product candidates, if approved for commercial sale, do not achieve an adequate level of market acceptance, they may not generate significant product revenue and we may not become profitable. The degree of market acceptance of our approved products, or any of our product candidates if approved for commercial sale, will depend on a number of factors, including: • the efficacy and potential advantages compared to alternative treatments, including less expensive generic treatments; • the ability to obtain differentiating claims in the labels for most of our product candidates; • our ability to offer our produg products for sale at competitive prices; • the clinical indications for which our product candidates are approved; • the convenience and ease of administration compared to alternative treatments; • the willingness of the target patient population to try new therapies and of physicians to prescribe these therapies; • the cost of treatment in relation to alternative treatments; • the steps that prescribers and dispensers must take for, since our approved products are or any, and we expect that most of our product candidates that may be considered controlled substances in the future as well as the perceived risks based upon their controlled substance status; • the ability to manufacture our product in sufficient quantities and yields; • the strength of marketing and distribution support; • the availability of third-party coverage and adequate reimbursement or willingness of patients to pay out of pocket in the absence of third-party coverage; • the prevalence and severity of any side effects; • any potential unfavorable publicity; • any restrictions on the use, sale or distribution of our approved products or any of our product candidates, including through REMS; and • any restrictions on the use of our produg products together with other medications. We face substantial competition Because the target patient population for certain of our products is small, we must achieve significant market share and obtain relatively high per-patient prices for our products to achieve meaningful gross margins. Our products target diseases with a small patient population. A key component of the successful commercialization of an approved product for these indications includes identification of patients and a targeted prescriber base for such product. Due to small patient populations for certain of our products, we believe that we would need to have significant market penetration to achieve meaningful revenues and identifying patients and targeting the prescriber base are key to achieving significant market penetration. Typically, drugs for conditions with small prevalence have higher prices in order to generate a return on investment, and as a result, the per-patient prices at which we sell may result in others discovering, developing or our commercializing products before are relatively high in order or for more us to generate an appropriate return for the investment in these product development programs and achieve meaningful gross margins. There can be no assurance that we will be successfully successful than in achieving a sufficient degree of market penetration and / or obtaining or maintaining high per-patient prices for OLPRUVA and MIPLYFFA for diseases with small patient populations. Further, even if we obtain significant market share for OLPRUVA and MIPLYFFA, because the potential target populations are very small, we may not be able to maintain profitability despite obtaining such significant market share. Additionally, patients who discontinue therapy or do not fill prescriptions are not easily replaced by new patients, given the limited patient population. Our 31 Our industry is characterized by rapidly advancing technologies, intense competition and a strong emphasis on proprietary products. We will face competition and potential competition from a number of sources, including pharmaceutical and biotechnology companies, specialty pharmaceutical companies, generic drug companies, drug delivery companies and academic and research institutions. Our competitors may develop or market drugs that are more effective, more convenient, more widely used and less costly or have a better safety profile than our products or product candidates and these competitors may also have significantly more resources than us and be more successful than us in manufacturing and marketing their products. See Part I Currently, there are no approved drugs in the United States for the treatment of NPC. We consider our most direct Item 1. "Business — competitor Competitors" with respect to arimocemol to be Zavesca (miglustat), which was originally developed by Actelion Pharmaceuticals and is now owned by Johnson & Johnson. Miglustat is currently approved for the treatment of this Annual Report on Form 10-K NPC in Europe, Canada, Australia, New Zealand, and several countries in Asia and South America as ZAVESCA and in Japan as BRAZAVES. If approved, we intend for KP1077 to compete against XYWAV, marketed by Jazz Pharmaceuticals, and potentially with other products that are currently in development for the treatment of IH, including Harmony Biosciences' WAKIX. KP1077 could face potential competition from any products for the treatment of IH that are currently in or which may enter into clinical development. AZSTARYS currently competes against currently marketed, branded and generic methylphenidate products for the treatment of ADHD. Some of these currently marketed products include CONCERTA, marketed by J & J Innovative Medicines (formerly Janssen), QUELBREE, marketed by Supernus Pharmaceuticals, Inc., QUILLIVANT XR, and QUILLICHEW ER, marketed by Tris Pharma, RITALIN, FOCALIN, and FOCALIN XR, marketed by Novartis AG, METADATE CD, marketed by UCB SA, DAYTRANA, marketed by Noven Therapeutics, LLC, Neos Therapeutics' CONTEMPLA XR, KODT, marketed Aytu BioScience, Inc., JORNAY PM, Ironshore Pharmaceuticals, Inc., and ADHANSA XR, marketed by Adlon Therapeutics. In addition, AZSTARYS will face potential competition

from any other methylphenidate products for the treatment of ADHD that are currently in, or for information regarding our which may enter into, clinical development. Our potential competitors, and the related stage of development for their product candidates in our target indications for OLPRUVA (sodium phenylbutyrate) for oral suspension and cefiprotol include for UCDs, Horizon Pharma plc / Immedica Group (Marketed) and Medunika USA (Marketed), and for vEDS, Aytu BioPharma (AR101 / enzastaurin development indefinitely suspended October 2022). Many of our potential competitors have substantially greater financial, technical and human resources than we do, as well as more experience in the development of product candidates, obtaining FDA and other regulatory approvals of products and the commercialization of those products. Consequently, our competitors may develop products for indications we are pursuing or may pursue in the future, and such competitors' products may be more effective, better tolerated and less costly than our product candidates. Our competitors may also be more successful in manufacturing and marketing their products than we are. We will also face competition in recruiting and retaining qualified personnel and establishing clinical trial sites and patient enrollment in clinical trials. Our competitors also may obtain FDA or other regulatory approval for their product candidates more rapidly than we may obtain approval for ours, which could result in our competitors establishing a strong market position before we are able to enter the market. If the competitor's product were similar to our product candidates, we may be required to seek approval via alternative pathways, such as the ANDA, which is used for the development of generic drug products. We may also be blocked from product marketing by periods of patent protection or regulatory exclusivity. In addition, our ability to compete may be affected in many cases by insurers or other third-party payors seeking to encourage the use of generic drugs or giving drugs with improved attributes sufficient weight in a comparative clinical cost effectiveness analysis. For some of the indications that we are pursuing, drugs used off-label serve as cheaper alternatives to our product candidates. Their lower prices could result in significant pricing pressure, even if our product candidates are otherwise viewed as a preferable therapy. Additional drugs may become available on a generic basis over the coming years. Mergers and acquisitions in the pharmaceutical and biotechnology industries may result in even more resources being concentrated among a smaller number of our competitors. Smaller and other early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established companies. Consequently, our competitors may develop products for the treatment of ADHD, pain, UCDs, or for other indications pursue or we may pursue in the future, and such competitors' products may be more effective, better tolerated and less costly than our product candidates. Our competitors may also be more successful in manufacturing and marketing their products than we are. We will also face competition in recruiting and retaining qualified personnel and establishing clinical trial sites and subject enrollment in clinical trials. ~~We may not be able to obtain either five-year FDA regulatory exclusivity as a new chemical entity or three-year FDA regulatory exclusivity. The 32~~ The FDA provides periods of regulatory exclusivity following their approval of an NDA, which provide the holder of an approved NDA limited protection from new competition in the marketplace for the innovation represented by its approved drug. Five-year exclusivity precludes approval of 505 (b) (2) applications or ANDAs by delaying the submission or approval of the application, while three-year exclusivity precludes the approval of the application. We intend to seek new chemical entity, or NCE, status for any of our prodrug product candidates as appropriate. Five years of exclusivity are available to NCEs following the approval of an NDA by the FDA. An NCE is a drug that contains no active moiety that has been approved by the FDA in any other NDA. If a product is not eligible for the NCE exclusivity, it may be eligible for three years of exclusivity. Three-year exclusivity is available to the holder of an NDA, including a 505 (b) (2) NDA, for a particular condition of approval, or change to a marketed product, such as a new formulation for a previously approved product, if one or more new clinical trials, other than bioavailability or bioequivalence trials, were essential to the approval of the application and were conducted or sponsored by the applicant. There is a risk that the FDA may disagree with any claim that we may make that any of our prodrug product candidates are NCEs and therefore entitled to five-year exclusivity. The FDA may also take the view that the studies that we are conducting are not clinical trials, other than bioavailability and bioequivalence studies, that are essential to approval and therefore do not support three-year exclusivity. Further, to the extent that the basis for exclusivity is not clear, the FDA may determine to defer a decision until it receives an application which necessitates a decision. If we do obtain either five or three years of exclusivity, such exclusivity will not block all potential competitors from the market. Competitors may be able to obtain approval for similar products with different forms of competitive differentiating mechanisms or may be able to obtain approval for similar products without a competitive differentiating mechanism. Even if we or our collaborators are able to commercialize our approved products, or any of our product candidates, if approved, they may be subject to unfavorable pricing regulations, third-party coverage and reimbursement policies. The successful commercialization of our approved products, and any of our product candidates for which marketing approval is obtained will depend, in part, on the extent to which coverage and adequate reimbursement for AZSTARYS, OLPRUVA, ~~MIPLVFA~~ or any of our product candidates for which marketing approval is obtained, will be available from government payor programs at the federal and state levels, including Medicare and Medicaid, private health insurers and managed care plans and other third-party payors. Government authorities and other third-party payors decide which medical products they will pay for and establish reimbursement levels, including co-payments. A trend in the U.S. healthcare industry and elsewhere is cost containment. Government authorities and other third-party payors have attempted to control costs by limiting coverage and the amount of reimbursement for particular medical products. Increasingly, third-party payors are requiring that drug companies provide them with predetermined discounts from list prices and are challenging the prices charged for drugs and products. Coverage and reimbursement may not be available for any product that we commercialize and, even if these are available, the level of reimbursement may not be satisfactory. Inadequate reimbursement levels may adversely affect the demand for, or the price of, our approved products, or any of our product candidates for which we obtain marketing approval. ~~Obtaining and maintaining adequate reimbursement for our prodrug products may be difficult.~~ We may be required to conduct expensive pharmacoeconomic studies to justify coverage and reimbursement or the level of reimbursement relative to other therapies. Moreover, the trend has been for government and commercial health plans and their pharmacy benefit managers to commoditize drug products through therapeutic equivalence determinations, making formulary decisions based on cost. If coverage and adequate reimbursement are not available or reimbursement is available only at limited levels, we may not be able to successfully commercialize our approved products or commercialize any of our product candidates for which marketing approval is obtained. There may be significant delays in obtaining coverage and reimbursement for newly approved prodrug products, and coverage may be more limited than the indications for which the product is approved by the FDA or similar regulatory authorities outside the United States. Moreover, eligibility for coverage and reimbursement does not imply that a product will be paid for in all cases or at a rate that covers our costs, including research, development, manufacture, sale and distribution expenses. Interim reimbursement levels for new prodrug products, if applicable, may also not be sufficient to cover our costs and may not be made permanent. Reimbursement rates may vary according to the use of the product and the clinical setting in which it is used, may be based on reimbursement levels already set for lower cost drugs and may be incorporated into existing payments for other services. Net prices for prodrug products may be reduced by mandatory discounts or rebates required by government healthcare programs or private payors and by any future relaxation of laws that presently restrict imports of drugs from countries where they may be sold at lower prices than in the United States. Private third-party payors often rely upon Medicare coverage policy and payment limitations in setting their own reimbursement policies. Except for certain government health care programs, such as the Department of Defense's TRICARE Uniform Formulary, no uniform policy requirement for coverage and reimbursement for drug products exists among third-party payors in the United States. Even state Medicaid programs have their own preferred drug lists that may disadvantage non-preferred brand drugs. Therefore, coverage and reimbursement can differ significantly from payor to payor. As a result, the coverage determination process is often a time-consuming and costly process that will require us to provide scientific and clinical support for the use of our products to each payor separately, with no assurance that coverage and adequate reimbursement will be applied consistently or obtained at all. Our inability to promptly obtain coverage and adequate reimbursement rates from both government-funded and private payors for any approved prodrug products or product candidates that we develop could significantly harm our operating results, our ability to raise capital needed to commercialize ~~our prodrugs~~ ~~products~~ and our overall financial condition. The regulations that govern marketing approvals, pricing, coverage and reimbursement for new drugs vary widely from country to country. Current and future legislation may significantly change the approval requirements in ways that could involve additional costs and cause delays in obtaining approvals. Some countries require approval of the sale price of a product before it can be marketed. In many countries, the pricing review period begins after marketing or product licensing approval is granted. In some foreign markets, prescription pharmaceutical pricing remains subject to continuing governmental control even after initial approval is granted. As a result, we might obtain marketing approval for a product in a particular country, but then be subject to price regulations that delay commercial launch of the product, possibly for lengthy time periods, and negatively impact the revenue able to be generated from the sale of the product in that country. Adverse pricing limitations may hinder our ability to recoup our investment in one or more product candidates, even if our product candidates obtain marketing approval. There can be no assurance that our approved products, or any of our product candidates, if they are approved for sale in the United States or in other countries, will be considered medically reasonable and necessary for a specific indication, that they will be considered cost-effective by third-party payors, that coverage or an adequate level of reimbursement will be available, or that third-party payors' reimbursement policies will not adversely affect the ability to sell our approved products, or our ability to sell any of our product candidates profitably if they are approved for sale. ~~We may be subject to enforcement action if we engage in improper marketing or promotion of our products.~~ The FDA closely regulates promotional materials and other promotional activities. Even if the FDA initially approves product labeling that includes a description of our improved attribute claims, the FDA may object to our marketing claims and product advertising campaigns. Failure to comply with the FDA's promotional, marketing and advertising laws and regulations could lead to the issuance of warning letters, cyber letters, or untitled letters, adverse publicity, the requirement for dear-health-care-provider letters or other corrective information, fines and other monetary penalties, civil or criminal prosecution, including False Claims Act liability, restrictions on our operations and other operating requirements through consent decrees or corporate integrity agreements, debarment, exclusion from participation in federal health care programs and refusal of government contracts or future orders under existing contracts, among other consequences. Any of these consequences would harm the commercial success of our products. Further, our promotional materials, statements and training methods must comply with the FDA's prohibition of the promotion of unapproved, or off-label, use. Any regulatory approval that the FDA grants is limited to those specific diseases and indications for which a product is deemed to be safe and effective by FDA. For example, the FDA-approved label for AZSTARYS is limited to the acute treatment of ADHD in patients 6 years of age and older and the FDA approved label for OLPRUVA is limited to oral suspension in the U.S. for the treatment of certain patients with UCDs involving deficiencies of CPS, OTC, or AS. Physicians may use our products off-label, as the FDA does not restrict or regulate a physician's independent choice of treatment within the practice of medicine. However, if the FDA determines that our promotional materials, statements or training constitutes promotion of an off-label use, it could request that we modify our promotional materials, statements or training methods or subject us to regulatory or enforcement actions, such as the issuance of an untitled letter, a warning letter, injunction, seizure, civil fine, disgorgement of money, operating restrictions or criminal penalties. We may also be subject to actions by other governmental entities or private parties, such as the False Claims Act, civil whistleblower or "qui tam" actions. It is also possible that other federal, state or foreign enforcement authorities might take action if they consider our promotional or training materials to constitute promotion of an off-label use, which could result in significant fines or penalties under other statutory authorities, such as laws prohibiting false claims for reimbursement. In that event, our reputation could be damaged and adoption of the products could be impaired. In addition, the off-label use of our products may increase the risk of product liability claims. Product liability claims are expensive to defend and could divert our management's attention, result in substantial damage awards against us and harm our

reputation. Product liability lawsuits against us could cause us to incur substantial liabilities and to limit commercialization of our approved products, or any of our product candidates that we may develop. We face an inherent risk of product liability exposure related to the testing of our product candidates in human clinical trials and will face an even greater risk as our approved products, and any of our product candidates that may be approved in the future, are commercialized. This includes the risk that our products may be misused. For example, **certain of our approved products do, and we anticipate that any of our product candidates we may choose to develop in the future, if approved, may carry, a boxed warning regarding lethality if our oral tablets or capsules are prepared for injection and hepatotoxicity, as is commonly done by abusers of opioids.** If we cannot successfully defend ourselves against claims that our product candidates or products caused injuries, we will incur substantial liabilities on behalf of ourselves. Regardless of merit or eventual outcome, liability claims may result in: • decreased demand for our approved products, and any of our product candidates that we may develop; • injury to our reputation and significant negative media attention; • termination of clinical trial sites or entire trial programs; • withdrawal of clinical trial participants; • initiation of investigations by regulators; • significant costs to defend the related litigation; • a diversion of management's time and our resources; • substantial monetary awards paid to trial participants or patients; • product recalls, withdrawals or labeling revisions and marketing or promotional restrictions; • loss of revenue; • reduced resources of our management to pursue our business strategy; and • the inability to successfully commercialize any of our approved **products, or any of our product candidates that might be approved in the future. We currently hold \$ 10.0 million in product liability insurance coverage in the aggregate, with a per incident limit of \$ 10.0 million, which may not be adequate to cover all liabilities that we may incur. We may need to increase our insurance coverage as we expand our clinical trials or upon commencement of commercialization of any product approved in the future. Insurance coverage is increasingly expensive. We may not be able to maintain insurance coverage at a reasonable cost or in an amount adequate to satisfy any liability that may arise.** If commercialization of our approved products, or any of our product candidates, if approved, are not successful, or we experience significant delays in commercialization, our business will be harmed. We currently generate minimal commercial revenue from the sale of our approved products, **OLPRUVA and MIPLYFFA**, and we may never be able to successfully commercialize a product candidate. We cannot guarantee that we, **Corium**, or any other collaborators will be able to successfully develop, manufacture or commercialize our approved products, or product candidates, if approved, or that we will ever receive any future payments under the AZSTARYS License Agreement. Despite the FDA's approval of OLPRUVA for oral suspension in the U. S. for the treatment of certain patients with UCs, **and MIPLYFFA, an orally-delivered treatment for NPC**, the **product products** may not gain market acceptance among physicians, key opinion leaders, healthcare payors, patients and the medical community. We have **invested substantially all of made significant investments in** our internal discovery and development efforts and much of our financial resources in the **development identification of potential product candidates via** our **proprietary-LAT® platform technology**, **the identification of potential product candidates** and the development of our product candidates. Our ability to generate revenue from our approved products and any of our product candidates, if approved, will depend heavily on their successful development and **eventual** commercialization. The success of our approved products and any of our product candidates will depend on several factors, including: • successful completion of preclinical studies and requisite clinical trials; • successful completion and achievement of endpoints in our clinical trials; • demonstration that the risks involved with our approved products and any of our product candidates are outweighed by the benefits; • successful development of our manufacturing processes for our approved products and for any of our product candidates, including entering into and maintaining arrangements with third- party manufacturers; • successful completion of an FDA **or European pre-approval** **approval** inspection of the facilities used to manufacture any of our product candidates for which we may submit an NDA **or an MAA**; • receipt of timely marketing approvals from applicable regulatory authorities, including, if applicable, the determination by the DEA of the controlled substance schedule for a product candidate, taking into account the recommendation of the FDA; • obtaining differentiating claims in the labels for our product candidates; • obtaining and maintaining patent, trademark and trade secret protection and regulatory exclusivity for our approved products and any of our product candidates and otherwise protecting our rights in our intellectual property portfolio; • maintaining compliance with regulatory requirements, including cGMPs; • launching commercial sales of our approved products, and any of our product candidates, if and when approved, whether alone or in collaboration with **Corium** or others; • acceptance of our approved products and any of our product candidates, if approved, by patients, the medical community and third- party payors; • competing effectively with other therapies; • obtaining and maintaining healthcare coverage and adequate reimbursement; and • maintaining a continued acceptable safety and efficacy profile of any of our products following approval. **Whether 33 Whether** regulatory approval will be granted is unpredictable and depends upon numerous factors, including the substantial discretion of the regulatory authorities. If, following submission, our NDA or marketing authorization application for a product candidate is not accepted for substantive review or approval, the FDA or other comparable foreign regulatory authorities may require that we conduct additional studies or clinical trials, provide additional data, take additional manufacturing steps or require other conditions before they will reconsider our application. If the FDA or other comparable foreign regulatory authorities require additional studies, clinical trials or data, we would incur increased costs and delays in the marketing approval process, which may require us to expend more resources than we have available. In addition, the FDA or other comparable foreign regulatory authorities may not consider sufficient any additional required studies, clinical trials, data or information that we perform and complete or generate, or we may decide to abandon the program. It is possible that none of our product candidates in clinical development or any of our future product candidates will ever obtain regulatory approval, even if we expend substantial time and resources seeking such approval. If we do not achieve one or more of these factors in a timely manner or at all, we could experience significant delays, we could experience an inability to successfully commercialize any of our approved products or product candidates, if approved, or we could experience an inability to successfully commercialize any of our product candidates approved for marketing in the future, if any, which would harm our business. **Our research and development activities are focused on discovering and developing proprietary produgs, and we are taking an innovative approach to discovering and developing produgs, which may never lead to marketable produg products. A key element of our strategy is to use our proprietary LAT platform technology to build a pipeline of produgs and progress product candidates based on these produgs through clinical development for the treatment of a variety of diseases and conditions. The scientific discoveries that form the basis for our efforts to discover and develop produgs are relatively new. As our scientific efforts are primarily focused on discovering novel produgs with new molecular structures, the evidence to support the feasibility of developing product candidates based on these discoveries is both preliminary and limited. Although our research and development efforts to date have resulted in a pipeline of produg product candidates, we may not be able to develop those product candidates into produgs that are bioequivalent, safe and /or effective or that offer commercially significant improvements over already approved drugs. Even if we are successful in continuing to build our pipeline, the potential product candidates that we identify may not be suitable for clinical development, for reasons including being shown to have harmful side effects, a lack of efficacy, or other characteristics that indicate that they are unlikely to be produgs that will receive marketing approval and achieve market acceptance. If our approved products are not successfully commercialized and we do not successfully develop and commercialize any of our product candidates based upon our proprietary LAT platform technology, we will not be able to obtain product revenue in future periods, which likely would result in significant harm to our financial position and adversely affect our stock price. If we are not able to obtain required regulatory approvals for any of our product candidates, or the approved labels are not sufficiently differentiated from other competing products, we will not be able to commercialize them and our ability to generate revenue or profits or to raise future capital could be limited.** The research, testing, manufacturing, labeling, packaging, storage, approval, sale, marketing, advertising and promotion, pricing, export, import and distribution of drug products are subject to extensive regulation by the FDA and other regulatory authorities in the United States and other countries, which regulations differ from country to country and change over time. We are not permitted to market any of our product candidates in the United States until we receive approval of an NDA from the FDA, or in any foreign countries until we receive the requisite approvals in such countries. In the United States, the FDA generally requires the completion of non-clinical testing and clinical trials of each drug to establish its safety and efficacy and extensive pharmaceutical development to ensure its quality and other factors before an NDA is approved. Regulatory authorities in other jurisdictions impose similar requirements. Of the large number of drugs in development, only a small percentage result in the submission of an NDA to the FDA and even fewer are approved for commercialization. Even if regulatory approval is obtained, subsequent safety, efficacy, quality or other issues can result in a product approval being suspended or withdrawn, or the approved label for any approved product may not be sufficiently differentiated from other competing products to support market adoption thereof. In March 2021, the FDA approved the NDA for AZSTARYS and, in December 2022, the FDA approved OLPRUVA, **and in September 2024, the FDA approved MIPLYFFA**. Even with the regulatory approval of AZSTARYS and, **OLPRUVA, and MIPLYFFA** by the FDA, we cannot guarantee that the FDA will approve any of our product candidates for commercial sale or approve any proposed label we may have for any such product candidate. If our development efforts for our product candidates, including our efforts to obtain regulatory approval, are not successful for their planned indications or are delayed, or if adequate demand for our product candidates that are approved for marketing, if any, is not generated, our business will be harmed. **The 34 The** success of our product candidates will depend on the receipt and maintenance of regulatory approval and the issuance and maintenance of such approval is uncertain and subject to a number of risks, including the following: • the FDA, **the EMA**, or comparable foreign regulatory authorities, institutional review boards, or IRBs, or ethics committees may disagree with the design or conduct of our clinical trials; • the results of our clinical trials may not meet the level of statistical or clinical significance required by the FDA, **the EMA**, or other regulatory agencies for marketing approval or for us to receive approval for claims that are necessary for commercialization; • the dosing in a particular clinical trial may not be at an optimal level; • patients in our clinical trials may suffer adverse effects for reasons that may or may not be related to our product candidates; • the data collected from clinical trials may not be sufficient to support submissions to regulatory authorities or to obtain regulatory approval in the United States or elsewhere; • the FDA or comparable foreign regulatory authorities may fail to approve the manufacturing processes or facilities of third- party manufacturers with which we contract for clinical and commercial supplies or may later suspend or withdraw such approval; • the approval policies or regulations of the FDA, **the EMA and other EU institutions**, or comparable foreign regulatory authorities may significantly change in a manner rendering our clinical data insufficient for approval; and • even if we obtain marketing approval in one or more countries, future safety or other issues could result in the suspension or withdrawal of regulatory approval in such countries. We have only limited experience in submitting the applications necessary to gain regulatory approvals and have relied, and expect to continue to rely, on consultants and third- party contract research organizations, or CROs, with expertise in this area to assist us in this process. Securing FDA **or comparable foreign** approval requires the submission of extensive non-clinical and clinical data, information about product manufacturing processes and inspection of facilities and supporting information to the FDA **and comparable foreign regulatory authorities** for each therapeutic indication to establish a product candidate's safety and efficacy for each indication and manufacturing quality. Additionally, we cannot guarantee that regulators will agree with our assessment of the results of the clinical trials we have conducted or that any future trials will be successful. Any product candidates we develop may prove to have undesirable or unintended side effects, toxicities or other characteristics that may preclude our obtaining regulatory approval or prevent or limit commercial use with respect to one or all intended indications. The process of obtaining regulatory approvals is expensive, often takes many years, if approval is obtained at all, and can vary substantially based upon, among other things, the type, complexity and novelty of the product candidates involved, the jurisdiction in which regulatory approval is sought and the substantial discretion of the regulatory authorities. Changes in the regulatory approval policy during the development period, changes in or the enactment of additional statutes or regulations, or changes in regulatory

review for a submitted product application may cause delays in the approval or rejection of an application or may result in future withdrawal of approval. Regulatory approval obtained in one jurisdiction does not necessarily mean that a product candidate will receive regulatory approval in all jurisdictions in which we may seek approval, but the failure to obtain approval in one jurisdiction may negatively impact our ability to seek approval in a different jurisdiction. Failure to obtain regulatory marketing approval of our product candidates in any indication will prevent us from commercializing those product candidates for that indication, and our ability to generate revenue will be impaired. ~~Disruptions at the FDA and other government agencies caused by funding shortages or global health concerns could hinder their ability to hire, retain or deploy key leadership and other personnel, or otherwise prevent new or modified products from being developed, approved or commercialized in a timely manner or at all, which could negatively impact our business.~~ **The 35** The ability of the FDA and foreign regulatory authorities to review and or approve new products can be affected by a variety of factors, including government **priorities**, budget and funding levels, statutory, regulatory, and policy changes, the FDA's and foreign regulatory authorities' ability to hire and retain key personnel and accept the payment of user fees, and other events that may otherwise affect the FDA's ability to perform routine functions. Average review times at the FDA and foreign regulatory authorities have fluctuated in recent years as a result. In addition, government funding of ~~other~~ government agencies that fund research and development activities is subject to the political process, which is inherently fluid and unpredictable. Disruptions at the FDA and other agencies may also slow the time necessary for new drugs to be reviewed and / or approved by necessary government agencies, which would adversely affect our business. For example, ~~in recent over the last several~~ years, the U. S. government has shut down several times and certain regulatory agencies, such as the FDA, have had to furlough critical FDA employees and stop critical activities. ~~In response to the COVID-19 pandemic, the FDA announced its intention to postpone most inspections of foreign and domestic manufacturing facilities at various points. Even though the FDA has since resumed standard inspection operations of domestic facilities where feasible, the FDA has continued to monitor and implement changes to its inspectional activities to ensure the safety of its employees and those of the firms it regulates as it adapts to the evolving COVID-19 pandemic, and any resurgence of the virus or emergence of new variants may lead to further inspection delays. Regulatory authorities outside the United States have adopted similar restrictions or other policy measures in response to the COVID-19 pandemic.~~ If a prolonged government shutdown **or similar constraints on funding or staffing occurs** ~~occur~~, or if **renewed** global health concerns ~~continue to~~ prevent the FDA or other regulatory authorities **or notified bodies** from conducting their regular inspections, reviews, or other regulatory activities, it could significantly impact the ability of the FDA or other regulatory authorities **or notified bodies** to timely review and process our regulatory submissions, which could have a material adverse effect on our business. If the FDA does not conclude that our product candidates satisfy the requirements for the 505 (b) (2) NDA pathway as anticipated, the approval pathway for our product candidates will likely take significantly longer, cost significantly more and entail significantly greater complications and risks than anticipated, and the FDA may not ultimately approve our product candidates. A key element of our strategy is to seek FDA approval for most of our product candidates under Section 505 (b) (2) of the FDCA, otherwise known as the 505 (b) (2) NDA pathway with any NDA submitted thereunder a 505 (b) (2) NDA, where possible. The 505 (b) (2) NDA pathway permits the filing of an NDA where at least some of the information required for approval comes from studies not conducted by or for the applicant and for which the applicant has not obtained a right of reference. Section 505 (b) (2), if applicable to us under the FDCA, would allow an NDA we submit to the FDA to rely in part on data in the public domain or the FDA's prior conclusions regarding the safety and effectiveness of approved compounds, which could expedite the development program for our future product candidates by potentially decreasing the amount of nonclinical and / or clinical data that we would need to generate in order to obtain FDA approval. Such reliance is typically predicated on a showing of bioequivalence or comparable bioavailability to an approved drug. AZSTARYS was approved via the 505 (b) (2) NDA pathway on March 2, 2021. If the FDA does not allow us to pursue the 505 (b) (2) NDA pathway as anticipated, or if we cannot demonstrate bioequivalence or comparable bioavailability of our product candidates to approved products, we may need to conduct additional clinical trials, provide additional data and information, and meet additional standards for regulatory approval. Moreover, even if the FDA does allow us to pursue the 505 (b) (2) NDA pathway, depending on the product candidate, we may still need to conduct additional clinical trials, including clinical trials to assess product safety or efficacy. If this were to occur, the time and financial resources required to obtain FDA approval for our product candidates, and complications and risks associated with our product candidates, would likely substantially increase. Moreover, our inability to pursue the 505 (b) (2) NDA pathway could result in new competitive products reaching the market more quickly than our product candidates, which could hurt our competitive position and our business prospects. Even if we are allowed to pursue the 505 (b) (2) NDA pathway, we cannot assure you that our product candidates will receive the requisite approvals for commercialization on a timely basis, if at all. Other companies may achieve product approval of similar products before we do, which would delay our ability to obtain product approval, expose us to greater competition, and would require that we seek approval via alternative pathways. In addition, notwithstanding the approval of several products by the FDA under Section 505 (b) (2) over the last few years, pharmaceutical companies and others have objected to the FDA's interpretation of Section 505 (b) (2). If the FDA's interpretation of Section 505 (b) (2) is successfully challenged, the FDA may change its policies and practices with respect to Section 505 (b) (2) regulatory approvals, which could delay or even prevent the FDA from approving any NDA that we submit under Section 505 (b) (2). In addition, the pharmaceutical industry is highly competitive, and Section 505 (b) (2) NDAs are subject to certain requirements designed to protect the patent rights of sponsors of previously approved drugs that are referenced in a Section 505 (b) (2) NDA. These requirements may give rise to patent litigation and mandatory delays in approval of our NDAs for up to 30 months or longer depending on the outcome of any litigation. It is not uncommon for a manufacturer of an approved product to file a citizen petition with the FDA seeking to delay approval of, or impose additional approval requirements for, pending competing products. If successful, such petitions can significantly delay, or even prevent, the approval of a new product. Even if the FDA ultimately denies such a petition, the FDA may substantially delay approval while it considers and responds to the petition. In addition, even if we are able to utilize the Section 505 (b) (2) regulatory pathway, there is no guarantee this would ultimately lead to streamlined product development or earlier approval. ~~Clinical drug development involves a lengthy and expensive process, with an uncertain outcome. We may incur additional costs or experience delays in completing, or ultimately be unable to complete, the development and commercialization of our product candidates.~~ The risk of failure for our product candidates is high. It is impossible to predict when or if any of our current product candidates will prove effective or safe in humans and will receive regulatory approval. Before obtaining marketing approval from regulatory authorities for the sale of any product candidate, we must complete preclinical development and then conduct clinical trials to demonstrate the safety and efficacy of our product candidates in humans. Clinical testing is expensive, difficult to design and implement, can take many years to complete and is uncertain as to outcome. A failure of one or more clinical trials can occur at any stage of testing. The outcome of preclinical studies and early clinical trials may not be predictive of the success of later clinical trials, and interim results of a clinical trial do not necessarily predict final results. Interpretation of results from early, usually smaller, studies that suggest positive trends in some subjects, requires caution. Results from later stages of clinical trials enrolling more subjects may fail to show the desired safety and efficacy results or otherwise fail to be consistent with the results of earlier trials of the same product candidates. Later clinical trial results may not replicate earlier clinical trials for a variety of reasons, including differences in trial design, different trial endpoints, or lack of trial endpoints in exploratory studies, subject population, number of subjects, subject selection criteria, trial duration, drug dosage and formulation and lack of statistical power in the earlier studies. Moreover, preclinical and clinical data are often susceptible to varying interpretations and analyses, and many companies that have believed their product candidates performed satisfactorily in preclinical studies and clinical trials have nonetheless failed to obtain marketing approval of their products. We may experience numerous unforeseen events during, or as a result of, clinical trials that could delay or prevent our ability to receive marketing approval or commercialize our product candidates, including: ● regulators, IRBs, or other ethics committees may not authorize us or our investigators to commence a clinical trial, conduct a clinical trial at a prospective trial site or amend clinical trial protocols as needed; ● we may experience delays in reaching, or fail to reach, agreement on acceptable clinical trial contracts or clinical trial protocols with prospective trial sites and CROs; ● clinical trials of our product candidates may produce negative or inconclusive results, including failure to demonstrate statistical significance in cases where that is required, and we may decide, or regulators may require us, to conduct additional clinical trials or abandon prodrug development programs; ● we may be unable to obtain sufficient or adequate supply or quality of product candidates or other materials necessary for use in clinical trials, or experience delays in sufficiently developing, characterizing or controlling a manufacturing process suitable for clinical trials; ● we may experience delays in manufacturing, testing, releasing, validating or importing / exporting sufficient stable quantities of our product candidates for use in clinical trials or the inability to do any of the foregoing; ● the number of subjects required for clinical trials of our product candidates may be larger than we anticipate enrollment in these clinical trials may be slower than we anticipate, or participants may drop out of these clinical trials at a higher rate than we anticipate; ● our third-party contractors may fail to comply with regulatory requirements or trial protocols, or meet their contractual obligations to us in a timely manner, or at all; ● regulators, IRBs, or other ethics committees may require that we or our investigators suspend or terminate clinical research for various reasons, including noncompliance with regulatory requirements or a finding that the participants are being exposed to unacceptable health risks; ● the cost of clinical trials of our product candidates may be greater than we anticipate, including if we are not able to pursue the 505 (b) (2) NDA pathway for approval of our product candidates; ● we will need to pay substantial application user fees, which we may not be able to afford; ● we may be required to transfer manufacturing processes to larger- scale facilities operated by a contract manufacturing organization, and we may experience delays or failures by our contract manufacturers to make any necessary changes to such manufacturing process; ● we may abandon our development program or programs based on the changing regulatory or commercial environment; ● regulatory authorities may not agree with our trial design or implementation; and ● our product candidates may have undesirable side effects or other unexpected characteristics, causing us or our investigators, regulators or IRBs to suspend or terminate the trials. ~~If 36~~ **If 36** If we are required to conduct additional clinical trials or other testing of our product candidates beyond those that we currently contemplate, if we are unable to successfully complete clinical trials of our product candidates or other testing, if the results of these trials or tests are not positive or are only modestly positive or if there are safety concerns, we may: ● be delayed in obtaining marketing approval for our product candidates; ● not obtain marketing approval at all; ● obtain approval for indications or patient populations that are not as broad as intended or desired; ● obtain approval but without the claims necessary for us to successfully commercialize our product candidates; ● obtain approval with labeling that includes significant use or distribution restrictions or safety warnings; ● be subject to additional post- marketing testing, surveillance, or other requirements, such as REMS; or ● have the product removed from the market after obtaining marketing approval. Any inability to successfully initiate or complete clinical trials could result in additional costs to us or impair our ability to generate revenue from product sales. In addition, if we make manufacturing or formulation changes to our product candidates, we may be required to or we may elect to conduct additional studies to bridge our modified product candidates to earlier versions. Clinical trial delays could also shorten any periods during which our products have patent protection and may allow our competitors to bring products to market before we do, which could impair our ability to successfully commercialize our product candidates and may seriously harm our business. Clinical trials must be conducted in accordance with the FDA, **the EMA** and other applicable regulatory authorities' legal requirements, regulations or guidelines, and are subject to oversight by these governmental agencies and ethics committees or IRBs at the medical institutions where the clinical trials are conducted. We could encounter delays if a clinical trial is suspended or terminated by us, by the data safety monitoring board for such trial or by the FDA or any other regulatory authority, or if the IRBs of the institutions in which such trials are being conducted suspend or terminate the participation of their clinical investigators and sites subject to their review. Such authorities may

suspend or terminate a clinical trial due to a number of factors, including failure to conduct the clinical trial in accordance with regulatory requirements or our clinical protocols, inspection of the clinical trial operations or trial site by the FDA or other regulatory authorities resulting in the imposition of a clinical hold, unforeseen safety issues or adverse side effects, failure to demonstrate a benefit from using a product candidate, changes in governmental regulations or administrative actions or lack of adequate funding to continue the clinical trial. Further, conducting clinical trials in foreign countries, as we may do for our product candidates, presents additional risks that may delay completion of our clinical trials. These risks include the failure of enrolled patients in foreign countries to adhere to clinical protocol **because as a result of** differences in healthcare services or cultural customs, managing additional administrative burdens associated with foreign regulatory schemes, as well as political and economic risks relevant to such foreign countries. Moreover, principal investigators for our clinical trials may serve as scientific advisors or consultants to us from time to time and receive compensation in connection with such services. Under certain circumstances, we may be required to report some of these relationships to the FDA or comparable foreign regulatory **authorities authority**. The FDA, **the EMA**, or comparable foreign regulatory authority may conclude that a financial relationship between us and a principal investigator has created a conflict of interest or otherwise affected interpretation of the study. The FDA, **the EMA**, or comparable foreign regulatory authority may therefore question the integrity of the data generated at the applicable clinical trial site and the utility of the clinical trial itself may be jeopardized. This could result in a delay in approval, or rejection, of our marketing applications by the FDA, **the EMA**, or comparable foreign regulatory authority, as the case may be, and may ultimately lead to the denial of marketing approval of one or more of our product candidates. Delays in the completion of any clinical trial of our product candidates will increase our costs, slow down our product development and the regulatory approval processes and delay or potentially jeopardize our ability to commence product sales and generate product revenue. Any of these occurrences may harm our business, financial condition and prospects significantly. In addition, the **policies of the FDA** ~~and~~ and other regulatory authorities ~~with respect to clinical trials~~ **policies** may change and additional government regulations may be enacted. For instance, the regulatory landscape related to clinical trials in the EU recently evolved. The **EU Clinical Trials Regulation** (“CTR”) which was adopted in April 2014 and repeals the EU Clinical Trials Directive, became applicable on January 31, 2022. While the EU Clinical Trials Directive required a separate clinical trial application (“CTA”) to be submitted in each member state in which the clinical trial takes place, to both the competent national health authority and an independent ethics committee, the CTR introduces a centralized process and only requires the submission of a single application for multi-center trials. The CTR allows sponsors to make a single submission to both the competent authority and an ethics committee in each member state, leading to a single decision per member state. The assessment procedure of the CTA has been harmonized as well, including a joint assessment by all member states concerned, and a separate assessment by each member state with respect to specific requirements related to its own territory, including ethics rules. Each member state’s decision is communicated to the sponsor via the centralized EU portal. Once the CTA is approved, clinical study development may proceed. The CTR **foresees a three-year transition period ended on** ~~The extent to which ongoing and new clinical trials will be governed by the CTR varies. Clinical trials for which an application was submitted (i) prior to January 31, 2022, under the Clinical Trials Directive, or (ii) between January 31, 2022, and January 31, 2023, and for which the sponsor has opted for the application of the EU Clinical Trials Directive remain governed by said Directive until January 31, 2025~~ **After this date**, and all clinical trials (including those which and related applications) **are now fully ongoing** will become subject to the provisions of the CTR. Compliance with the CTR requirements by us and our third-party service providers, such as CROs, may impact our development plans. ~~If~~ **37** ~~If~~ we experience delays or difficulties in the enrollment of subjects in clinical trials, our receipt of necessary regulatory approvals could be delayed or prevented. We may not be able to initiate or continue clinical trials for our product candidates if we are unable to locate and enroll a sufficient number of eligible subjects to participate in these trials as may be required by the FDA or similar regulatory authorities outside the United States. We cannot predict how successful we will be at enrolling subjects in future clinical trials. If we are not successful at enrolling subjects in one clinical trial, it may affect when we are able to initiate our next clinical trial, which could result in significant delays in our efforts to pursue regulatory approval of and commercialize our product candidates. In addition, some of our competitors have ongoing clinical trials to treat the same indications as our product candidates, and subjects who would otherwise be eligible for our clinical trials may instead enroll in clinical trials of our competitors. Subject enrollment is affected by other factors including: • the size and nature of the subject population specified in the trial protocol; • the eligibility criteria for the study in question; • the perceived risks and benefits of the product candidate under study; • the fact that the product candidate is a controlled substance; • severe or unexpected drug-related adverse events experienced by subjects in a clinical trial; • the availability of drugs approved to treat the diseases or conditions under study; • the efforts to facilitate timely enrollment in clinical trials; • the patient referral practices of physicians; • the severity of the disease or condition under investigation; • the ability to obtain and maintain subject informed consent; • the ability to retain subjects in the clinical trial and their return for follow-up; • the clinical trial design, including required tests, procedures and follow-up; • the ability to monitor subjects adequately during and after treatment; • delays in adding new investigators and clinical sites; • withdrawal of clinical trial sites from clinical trials; and • the proximity and availability of clinical trial sites for prospective subjects. Our inability to enroll a sufficient number of subjects for clinical trials would result in significant delays and could require us to abandon one or more clinical trials altogether. Enrollment delays in these clinical trials may result in increased development costs for our product candidates, which could cause our value to decline and limit our ability to obtain additional financing. ~~Interim~~ **38** ~~Interim~~ **Interim**, topline, or preliminary data from our clinical trials that we announce or publish from time to time may change as more patient data become available and are subject to audit and verification procedures that could result in material changes in the final data. From time to time, we may publicly disclose topline or preliminary data from our preclinical studies and clinical trials, which is based on a preliminary analysis of then-available data, and the results and related findings and conclusions are subject to change following a more comprehensive review of the data related to the particular study or trial. We also make assumptions, estimations, calculations, and conclusions as part of our analyses of data, and we may not have received or had the opportunity to fully and carefully evaluate all data. As a result, the preliminary or topline results that we report may differ from future results of the same studies, or different conclusions or considerations may qualify such results, once additional data has been received and fully evaluated. Topline data also remains subject to audit and verification procedures that may result in the final data being materially different from the preliminary data we previously published. As a result, preliminary or topline data should be viewed with caution until the final data are available. From time to time, we may also disclose interim data from our preclinical studies and clinical trials. Interim data from clinical trials that we may complete are subject to the risk that one or more of the clinical outcomes may materially change as patient enrollment continues and more patient data become available or as patients from our clinical trials continue other treatments for their disease. Adverse differences between preliminary or interim data and final data could significantly harm our business prospects. Further, disclosure of interim data by us or by our competitors could result in volatility in the price of our common stock. Further, others, including regulatory agencies, may not accept or agree with our assumptions, estimates, calculations, conclusions, or analyses or may interpret or weigh the importance of data differently, which could impact the value of the particular program, the approvability or commercialization of the particular product candidate, and our company in general. If the interim, topline, or preliminary data that we report differs from actual results, or if others, including regulatory authorities, disagree with the conclusions reached, our ability to obtain approval for, and commercialize, any of our potential product candidates may be harmed, which could harm our business, operating results, prospects, or financial condition. ~~We may not be able to obtain or maintain orphan drug designations which we pursue for any of our product candidates, and we may be unable to maintain the benefits associated with orphan drug designation, including the potential for market exclusivity.~~ Regulatory authorities in some jurisdictions, including the United States, may designate drugs for relatively small patient populations as orphan drugs. Under the Orphan Drug Act of 1983, the FDA may designate a drug as an orphan product if it is intended to treat a rare disease or condition, which is generally defined as a patient population of fewer than 200,000 individuals in the United States, or a patient population of greater than 200,000 individuals in the United States, but for which there is no reasonable expectation that the cost of developing the drug will be recovered from sales in the United States. While the FDA has granted KP1077 orphan drug designation for the treatment of IH, and celirolol received orphan drug designation from the FDA for the treatment of ~~EDS~~ **VEDS**, we have not received orphan drug designation for any other product candidate. We may seek to obtain orphan drug designation for product but there can be no assurance that the FDA will grant orphan designation for any indication for which we apply, or that we will be able to maintain such designation. In the United States, orphan designation entitles a party to financial incentives such as opportunities for grant funding toward clinical trial costs, tax advantages and user-fee waivers. In addition, if a product candidate that has orphan designation subsequently receives the first FDA approval for the disease for which it has such designation, the product is entitled to orphan drug exclusivity, which means that the FDA may not approve any other applications, including an NDA, to market the same product for the same indication for seven years, except in limited circumstances, such as a showing of clinical superiority to the product with orphan drug exclusivity or where the manufacturer is unable to assure sufficient product quantity. In the EU, orphan designation is granted by the EC based on a scientific opinion of the EMA’s Committee for Orphan Medicinal Products. A medicinal product may be designated as orphan if its sponsor can establish that (i) the product is intended for the diagnosis, prevention or treatment of a life-threatening or chronically debilitating condition; (ii) either (a) such condition affects no more than 5 in 10,000 persons in the EU when the application is made, or (b) the product, without the benefits derived from orphan status, would not generate sufficient return in the EU to justify investment; and (iii) there exists no satisfactory method of diagnosis, prevention or treatment of such condition authorized for marketing in the EU, or if such a method exists, the medicinal product will be of significant benefit to those affected by the condition. The application for orphan designation must be submitted before the application for marketing authorization. Orphan designation entitles a party to financial incentives such as reduction of fees, fee waivers, protocol assistance, and access to the centralized marketing authorization procedure. Moreover, upon grant of a marketing authorization and assuming the requirement for orphan designation are also met at the time the marketing authorization is granted, orphan medicinal products are entitled to a ten-year period of market exclusivity for the approved therapeutic indication. The period of market exclusivity is extended by two years for orphan medicinal products that have also complied with an agreed Pediatric Investigation Plan. Even if we obtain orphan drug exclusivity for a product, that exclusivity may not effectively protect the product from competition because different drugs can be approved for the same condition. Even after an orphan drug is approved, the FDA or comparable foreign regulatory authority can subsequently approve the same drug for the same condition if such regulatory authority concludes that the later drug is clinically superior because it is shown to be safer, more effective or makes a major contribution to patient care. Orphan drug exclusivity may also be lost if the FDA later determines that the initial request for designation was materially defective. In addition, orphan drug exclusivity does not prevent the FDA from approving competing drugs for the same or similar indication containing a different active ingredient. In addition, if a subsequent drug is approved for marketing for the same or a similar indication as any of our product candidates that receive marketing approval, we may face increased competition and lose market share regardless of orphan drug exclusivity. In the EU, during the market exclusivity period, marketing authorizations may be granted to a similar medicinal product with the same orphan indication if: (i) the applicant can establish that the second medicinal product, although similar to the orphan medicinal product already authorized is safer, more effective or otherwise clinically superior to the orphan medicinal product already authorized; (ii) the marketing authorization holder for the orphan medicinal product grants its consent; or (iii) if the marketing authorization holder of the orphan medicinal product is unable to supply sufficient quantities of product. The European exclusivity period can be reduced to six years, if, at the end of the fifth year a medicine no longer meets the criteria for orphan designation (i.e. the prevalence of the condition has increased above the orphan designation threshold) **or** it is judged that the product is sufficiently profitable so as not to justify maintenance of market exclusivity). Orphan drug

designation neither shortens the development time or regulatory review time of a drug nor gives the drug any advantage in the regulatory review or approval process. **Our Certain of our** approved products and **certain of our** product candidates contain controlled substances, the manufacture, use, sale, importation, exportation, prescribing and distribution of which are subject to regulation by the DEA and other regulatory agencies. **Our Certain of our** approved products and certain of our product candidates are regulated as controlled substances, which are subject to state, federal, and foreign laws and regulations regarding their manufacture, use, sale, importation, exportation, and distribution. Among other things, controlled substances are regulated under the **federal**-Controlled Substances Act of 1970, **or CSA**, and regulations of the DEA. Before we can commercialize any of our products or product candidates, if approved, the DEA will need to determine the controlled substance schedule, taking into account the recommendation of the FDA. This may be a lengthy process that could delay our marketing of a product candidate and could potentially diminish any regulatory exclusivity periods for which we may be eligible. The DEA regulates controlled substances as Schedule I, II, III, IV or V substances. Schedule I substances by definition have no established medicinal use and may not be marketed or sold in the United States. A pharmaceutical product may be listed as Schedule II, III, IV or V, with Schedule II substances considered to present the highest risk of abuse and Schedule V substances the lowest relative risk of abuse among such substances. The DEA determined AZSTARYS to be a Schedule II controlled substance. In addition, the DEA scheduled SDX as a Schedule IV substance. We expect that most of our product candidates, including KP1077, if approved, will also be regulated as “controlled substances” by the DEA, which subjects AZSTARYS and this product candidate to additional restrictions regarding their manufacture, shipment, storage, sale and use, depending on the scheduling of the active ingredients, and may limit the commercial potential of our products and any of our product candidates, if approved. Various states also independently regulate controlled substances. Though state- controlled substances laws often mirror federal law, because the states are separate jurisdictions, they may separately schedule drugs as well. While some states automatically schedule a drug when the DEA does so, in other states there must be rulemaking or a legislative action. State scheduling may delay commercial sale of any controlled substance drug product for which we obtain federal regulatory approval and adverse scheduling could impair the commercial attractiveness of such product. We or our collaborators must also obtain separate state registrations in order to be able to obtain, handle and distribute controlled substances for clinical trials or commercial sale, and failure to meet applicable regulatory requirements could lead to enforcement and sanctions from the states in addition to those from the DEA or otherwise arising under federal law. For any of our products or product candidates classified as controlled substances, we and our suppliers, manufacturers, contractors, customers and distributors are required to obtain and maintain applicable registrations from state, federal and foreign law enforcement and regulatory agencies and comply with state, federal and foreign laws and regulations regarding the manufacture, use, sale, importation, exportation and distribution of controlled substances. There is a risk that DEA regulations may limit the supply of the compounds used in clinical trials for our product candidates, and, in the future, the ability to produce and distribute our products in the volume needed to meet commercial demand. For example, a DEA quota system controls and limits the availability and production of controlled substances in Schedule I or II. Because our products and most of our product candidates are or may be regulated as Schedule II controlled substances, they may be subject to the DEA’s production and procurement quota scheme. The DEA establishes annually an aggregate quota for how much of a controlled substance may be produced in total in the United States based on the DEA’s estimate of the quantity needed to meet legitimate scientific and medicinal needs. Manufacturers of Schedule I and II controlled substances are required to apply for quotas on an annual basis. If we or our contract manufacturers or suppliers do not obtain a sufficient quota from the DEA, we may not be able to obtain sufficient quantities of these controlled substances in order to complete our clinical trials or meet commercial demand for any of our products or product candidates classified under Schedule II. Regulations associated with controlled substances govern manufacturing, labeling, packaging, testing, dispensing, production and procurement quotas, recordkeeping, reporting, handling, shipment and disposal. These regulations increase the personnel needs and the expense associated with development and commercialization of product candidates including controlled substances. The DEA, and some states, conduct periodic inspections of registered establishments that handle controlled substances. Failure to obtain and maintain required registrations or comply with any applicable regulations could delay or preclude us from developing and commercializing our product candidates containing controlled substances and subject us to enforcement action. The DEA may seek civil penalties, refuse to renew necessary registrations or initiate proceedings to revoke those registrations. In some circumstances, violations could lead to criminal proceedings. Because of their restrictive nature, these regulations could limit commercialization of any of our products or product candidates that are classified as controlled substances. **The EU legislation does not establish different classes..... the highest risk of abuse.** The UN Conventions require signatories to require all persons manufacturing, trading (including exporting and importing) or distributing controlled substances to obtain a license from the relevant authority. Each individual export or import of a controlled substance must also be subject to an authorization. The obligations provided in the UN Conventions and additional requirements are implemented at national level and requirements may vary from one member state to another. In order to develop and commercialize our products in the EU, we would need to comply with the national requirements related to controlled substances which is costly and may affect our development plans in the EU. **Our products and product candidates may be associated with serious adverse events, undesirable side effects or have other properties that could halt their clinical development, prevent their regulatory approval, limit their commercial potential or result in significant negative consequences.** Adverse **40Adverse** events or other undesirable side effects caused by our products or product candidates could cause us or regulatory authorities to interrupt, delay or halt clinical trials and could result in a more restrictive label or the delay or denial of regulatory approvals by the FDA or other comparable foreign regulatory authorities. During the conduct of clinical trials, patients report changes in their health, including illnesses, injuries, and discomforts, to their study doctor. Often, it is not possible to determine whether or not the product candidate being studied caused these conditions. It is possible that as we test our product candidates in larger, longer and more extensive clinical trials, or as use of these product candidates becomes more widespread if they receive regulatory approval, illnesses, injuries, discomforts and other adverse events that were observed in previous trials, as well as conditions that did not occur or went undetected in previous trials, will be reported by patients. Many times, side effects are only detectable after investigational products are tested in large- scale clinical trials or, in some cases, after they are made available to patients on a commercial scale following approval. If any serious adverse events occur, clinical trials or commercial distribution of any product candidates or products we develop could be suspended or terminated, and our business could be seriously harmed. Treatment- related side effects could also affect patient recruitment and the ability of enrolled patients to complete the trial or result in potential liability claims. Regulatory authorities could order us to cease further development of, deny approval of, and / or require us to cease selling our products or product candidates, if approved, for any or all targeted indications. If we are required to delay, suspend or terminate any clinical trial or commercialization efforts, the commercial prospects of our products or product candidates may be harmed, and our ability to generate product revenues from them or other product candidates that we develop may be delayed or eliminated. Additionally, if one or more of our product candidates receives marketing approval and we or others later identify undesirable side effects or adverse events caused by such products, a number of potentially significant negative consequences could result, including but not limited to: • regulatory authorities may suspend, limit or withdraw approvals of such product, or seek an injunction against its manufacture or distribution; • regulatory authorities may require additional warnings on the label, including “boxed” warnings, or issue safety alerts, Dear Healthcare Provider letters, press releases or other communications containing warnings or other safety information about the product; • we may be required to change the way the product is administered or conduct additional clinical trials or post-approval studies; • we may be required to create a risk evaluation and mitigation strategy, or REMS, which could include a medication guide outlining the risks of such side effects for distribution to patients; • we may be subject to fines, injunctions or the imposition of criminal penalties; • we could be sued and held liable for harm caused to patients; and • our reputation may suffer. Any of these events could prevent us from achieving or maintaining market acceptance of our products or any of our product candidates, if approved, and could seriously harm our business. **We 41We** may expend our limited resources to pursue a particular product candidate or indication and fail to capitalize on product candidates or indications that may be more profitable or for which there is a greater likelihood of success. Because we have limited financial and management resources, we focus on research programs and product candidates that we identify for specific indications. As a result, we may forego or delay pursuit of opportunities with other product candidates or for other indications that later prove to have greater commercial potential. Our resource allocation decisions may cause us to fail to capitalize on viable commercial drugs or profitable market opportunities. Our spending on current and future research and development programs and product candidates for specific indications may not yield any commercially viable products. If we do not accurately evaluate the commercial potential or target market for a particular product candidate, we may relinquish valuable rights to that product candidate through collaboration, licensing or other royalty arrangements in cases in which it would have been more advantageous for us to retain sole development and commercialization rights to such product candidate. **Social issues around the abuse of opioids and stimulants, including law enforcement concerns over diversion and regulatory efforts to combat abuse, could decrease the potential market for our approved products or any of our other applicable product candidates. Media stories regarding prescription drug abuse and the diversion of opioids, stimulants and other controlled substances are commonplace. Law enforcement and regulatory agencies may apply policies that seek to limit the availability of opioids and stimulants. Such efforts may inhibit the ability to commercialize our approved products or any of our other applicable product candidates. Aggressive enforcement and unfavorable publicity regarding, for example, the use or misuse of hydrocodone or other opioid drugs and stimulants, the limitations of abuse- deterrent formulations, public inquiries and investigations into prescription drug abuse, litigation or regulatory activity, sales, marketing, distribution or storage of our products could harm our reputation. Such negative publicity could reduce the potential size of the market for our approved products or any of our other applicable product candidates and decrease the revenue we are able to generate from their sale, if approved. Similarly, to the extent prescription drug abuse becomes a less prevalent or less urgent public health issue, regulators and third- party payors may not be willing to pay a premium for formulations with improved attributes of opioids or stimulants. Additionally, efforts by the FDA and other regulatory bodies to combat abuse of opioids and stimulants may negatively impact the market for our approved products and any of our other applicable product candidates. For example, in April 2014, the FDA approved class- wide labeling changes to the indications for use of all approved ER / LA opioids, so that ER / LA opioids will be indicated only for the management of pain severe enough to require daily, around- the- clock, long- term opioid treatment and for which alternative treatment options are inadequate. These changes have reduced the number of prescriptions for opioids written by physicians and negatively impact the potential market our applicable product candidates. The FDA also held a public meeting in October 2014, on the development and regulation of abuse- deterrent formulations of opioid medications. Further, the Centers for Disease Control and Prevention previously issued draft guidelines for the prescribing of opioids for chronic pain, providing recommendations for primary care providers prescribing opioids for chronic pain on when to initiate or continue opioids; opioid selection and discontinuation, and the assessment of the risk and addressing harms of opioid use, among other areas. It is possible that FDA, or other regulatory bodies, will announce new regulatory initiatives at any time that may increase the regulatory burden or decrease the commercial opportunity for our approved products or any of our other applicable product candidates. If the Arimoclomol- EAP is terminated prior to commercialization of arimoclomol in the EU, if approved, it will have a material adverse effect on our business, results of operations, cash flows, financial condition and / or prospects. Arimoclomol is currently available to NPC patients in the United States- France, Germany, and other EU member states through the Arimoclomol- EAP. The EAP is expected to remain in place until arimoclomol becomes commercially available in each of the current EAP markets. If the Arimoclomol- EAP is terminated prior to commercialization of arimoclomol, it will have a material adverse effect on our business, results of operations, cash flows, financial condition and / or prospects. **Risks 42Risks** Related to Our Business, Our Financial Position and Our Capital Needs **We may be unable to integrate the Acet business****

successfully or realize the anticipated synergies and related benefits of the Merger. We entered into the Merger Agreement with Acer with the expectation that the Merger will result in various benefits and synergies. However, the Merger involved the combination of two previously independent public companies. In particular, prior to the signing of the Merger Agreement and the extension of the Bridge Loan, Acer's assets consisted primarily of approximately \$0.6 million in cash or cash equivalents and certain product rights. Moreover, prior to the Merger Agreement, Acer had historically been unable to fund its operations on a standalone basis without substantial additional investment. We may be unable to successfully operate Acer's business or integrate it into our own operations as a combined company. We are required to devote significant management attention and resources to integrating the portfolio and operations of Acer. Potential difficulties that we may encounter in the integration process include the following: • the inability to combine our business with Acer's in a manner that permits us to achieve the cost savings or other synergies anticipated as a result of the Merger or to achieve such cost savings or other anticipated synergies in a timely manner, which could result in Zevra not realizing some anticipated benefits of the Merger in the time frame currently anticipated, or at all; • the inability to realize the anticipated value from various Acer assets; • the inability to coordinate and integrate research and development teams across technologies and products to enhance product development; • the inability to integrate and manage personnel from the companies and minimizing the loss of key employees; • the inability to consolidate our administrative and information technology infrastructure and financial systems and identify and eliminate redundant and underperforming functions and assets; • the inability to harmonize our operating practices, employee development and compensation programs, internal controls and other policies, procedures and processes; • the inability to coordinate distribution and marketing efforts; • potential unknown liabilities and unforeseen increased expenses, delays or unfavorable conditions in connection with the post-closing integration; and • performance shortfalls as a result of the diversion of management's attention from ongoing business activities as a result of the Merger and integrating our operations. It is possible that the integration process could result in the distraction of our management, the loss of key employees, the disruption of our ongoing business or inconsistencies in our operations, services, standards, controls, procedures and policies, any of which could adversely affect our ability to maintain relationships with third parties and employees or to achieve the anticipated benefits of the Merger, or could otherwise adversely affect our business and financial results. 41 Our future results will suffer if we do not effectively manage our expanded operations following the Merger. Following Due to the Merger additional of our commercialization capabilities and through our strategic transactions, the size and scope of our operations increased. We may continue to expand our size and operations through further expansion of capabilities, additional acquisitions or other strategic transactions. Our future success depends, in part, upon our ability to manage our expanded business, which may pose substantial challenges for our management, including challenges related to the management and monitoring of new operations and locations and associated increased costs and complexity. There can be no assurances that we will be successful in managing our expanded business or that we will realize the expected economies of scale, synergies and other benefits currently anticipated from the Merger or anticipated from any additional acquisitions or strategic transactions. We may not be able to..... to satisfy any liability that may arise. A variety of risks associated with international operations could materially adversely affect our business. We expect to engage in significant cross-border activities, and we will be subject to risks related to international operations, including: • different regulatory requirements for maintaining approval of drugs in foreign countries; • differing payor reimbursement regimes, governmental payors or patient self-pay systems and price controls; • reduced protection for contractual and intellectual property rights in some countries; • unexpected changes in tariffs, trade barriers and regulatory requirements; • economic weakness, including inflation, labor shortages, supply chain shortages, or other economic or political uncertainties or instability in particular foreign economies and markets; • compliance with tax, employment, immigration and labor laws for employees living or traveling abroad; • foreign currency fluctuations, which could result in increased operating expenses and reduced revenue, and other obligations incident to doing business in another country; • workforce uncertainty in countries where labor unrest is more common than in North America; • tighter restrictions on privacy and the collection and use of patient and clinical trial participant data; and • business interruptions resulting from geopolitical actions, including war and terrorism, or natural disasters including earthquakes, typhoons, floods and fires. Risks Related We may not be able to Regulatory Approval retain suppliers or distributors, or suppliers or distributors may seek to modify contractual relationships with us, which could have an adverse effect on our business and operations. Third parties may terminate or alter existing contracts or relationships with us. We may experience impacts on relationships with customers, suppliers and distributors that may harm our business and results of operations. Certain suppliers or distributors may seek to terminate or modify contractual obligations following the Merger whether or not contractual rights are triggered as a result of the Merger. There can be no guarantee that our or Acer's prior customers, suppliers and distributors will remain with or continue to have a relationship with us or do so on contractual terms amenable to us. If any suppliers or distributors seek to terminate or modify contractual obligations or discontinue their relationship with us, then our business and results of operations may be harmed. If we fail The restatement of our consolidated financial statements has subjected us to a number of additional risks and uncertainties, including increased possibility of legal proceedings. Any failure to maintain effective internal control over financial reporting could harm and disclosure controls and procedures, we may not be able to accurately report our financial results or report them in a timely manner, which may adversely affect investor confidence in us and. As discussed elsewhere in this Annual Report, as a result on March 25 2024, the Audit Committee value of our common stock. Our Product Candidates and management is required to report annually on Other the Legal is taking steps effectiveness of our internal control over financial reporting pursuant to remediate Section 404 of the material weakness Sarbanes-Oxley Act, or Section 404. There. The can rules governing the standards that must be no assurance that any measures we take will remediate the material weakness identified met for our management to assess our internal control over financial reporting are complex and require significant documentation, testing and possible nor can there be any assurance as to how quickly we will be able to remediate remediation this material weakness. Our failure to certify the effectiveness of our internal control over financial reporting or our disclosure controls and procedures, or the identification of the material weakness, could subject us to regulatory scrutiny and a loss of public confidence, which could have a material adverse effect on our business and our stock price. If in the future, we may identify additional material weaknesses or significant deficiencies, and we may not be able to remediate them in time to meet the deadline imposed by the Sarbanes-Oxley Act for compliance with the Compliance compliance Matters Failure with the requirements of Section 404. In addition, we may encounter problems or delays in completing the implementation of any requested improvements and, if and when such a report is required, receiving a favorable attestation report from our independent registered public accounting firm. If we do not maintain adequate financial and management personnel, processes and controls, we may not be able to manage our business effectively or accurately report our financial performance on a timely basis, which could cause a decline in our common stock price and adversely affect our results of operations and financial condition. We have incurred significant recurring negative net operating cash flows. We cannot predict if we will incur positive or negative net operating cash flows over the next several years, which may impact our ability to continue as a going concern, and we may never achieve or maintain profitability. We have historically had significant negative net operating cash flows since inception. For the years ended December 31, 2024, and 2023, net cash used in operations was \$ 69.7 million and \$ 33.5 million, respectively. We have financed our operations through December 31, 2024, with funds raised in private placements of redeemable convertible preferred stock, the issuance of convertible promissory notes and term debt, our initial public offering and other public and private offerings of our common stock, as well as through revenue royalties and milestone payments received under the AZSTARYS License Agreement, sales of reimbursements related to arimocicamol under the Arimocicamol-EAP, the Corium Consulting Agreement and product, since the consummation of the Merger, sales of OLPRUVA. Our recurring operating losses and MIPLYFFA negative cash flows from operations raise substantial doubt about our ability to continue as a going concern. 43 We have no current source of revenues to sustain our present activities, and we do not expect to generate revenues until, and unless, the FDA or other regulatory agencies approve our product candidates, and we successfully commercialize our approved products and product candidates. Accordingly, our ability to continue as a going concern will require us to obtain additional financing to fund our operations. The perception of our inability to continue as a going concern may make it more difficult for us to obtain financing for the continuation of our operations and could result in the loss of confidence by investors, suppliers and employees. We have devoted substantially all of our financial resources and efforts to research and development, including preclinical studies and clinical trials, and commercialization. We are still in the early stages of commercializing our approved products and in development of many of our product candidates. We have devoted substantially all of our financial resources and efforts to research and development, including preclinical studies and clinical trials. We, and our product candidates, are in various stages of development. We, of our product candidates, and we have only completed development of, and received regulatory approval for, AZSTARYS and OLPRUVA-MIPLYFFA. We expect to continue to incur significant expenses and operating losses over the next several years and our net losses may fluctuate significantly from quarter to quarter and year to year as we: • continue to integrate the operations of Acer following the recent Merger; • continue our ongoing preclinical studies, clinical trials and our product development activities for our pipeline of product candidates; • seek regulatory approvals for product candidates that successfully complete clinical trials; • continue research and preclinical development and initiate clinical trials of our product candidates; • seek to discover and develop additional product candidates either internally or in partnership with other pharmaceutical companies; • adapt our regulatory compliance efforts to incorporate requirements applicable to marketed products; • maintain, expand and protect our intellectual property portfolio; • incur additional legal, accounting and other expenses in operating as a public company; and • add operational systems and personnel, if needed, to support any future commercialization efforts. To become and remain profitable, we must succeed in developing and eventually commercializing produgs that generate significant revenue. This will require us to be successful in a range of challenging activities, including completing preclinical studies and clinical trials and obtaining regulatory approval of our product candidates, and manufacturing, marketing and selling, whether ourselves or through a license with a third party, any of our product candidates for which we may obtain regulatory approval, as well as discovering and developing additional product candidates. We are in various stages of these activities for our product candidates and we cannot guarantee that any strategy we adopt will be successful. We may never succeed in commercialization activities and, even if we do, may never generate revenue that is significant enough to achieve profitability. Because of the numerous risks and uncertainties associated with prodrug development, we are unable to accurately predict the timing or amount of expenses or when, or if, we will be able to achieve profitability. If we are required by regulatory authorities to perform studies in addition to those currently expected, or if there are any delays in the initiation and completion of our clinical trials or the development of any of our product candidates, our expenses could increase. Even if we achieve profitability, we may not be able to sustain or increase profitability on a quarterly or annual basis. Our failure to become and remain profitable would depress our value and could impair our ability to raise

capital, expand our business, maintain our research and development efforts, obtain product approvals, diversify our product offerings or continue our operations. A decline in our value could also cause you to lose all or part of your investment. Identifying potential product candidates and conducting preclinical studies and clinical trials is a time-consuming, expensive and uncertain process that takes years to complete, and we may not generate the necessary data or results required to obtain regulatory approval for our product candidates or claims necessary to make such candidates profitable and achieve product sales. In addition, our approved products or any of our product candidates, if approved, may not achieve commercial success. Our commercial revenue will be derived from sales of produg products. We cannot guarantee that we or Corium will be able to successfully commercialize OLPRUVA, **MIPLYFFA**, or AZSTARYS to any certain level, or any of the product candidates subject to the AZSTARYS License Agreement, even if approved, or that we will ever receive any additional payments under the AZSTARYS License Agreement from the commercial sales of AZSTARYS or any future payments under the AZSTARYS License Agreement. Accordingly, we will need to continue to rely on additional financing to achieve our business objectives. Adequate additional financing may not be available to us on acceptable terms, or at all. To the extent that we raise additional capital through the sale of equity or debt securities, the terms of those securities or debt may restrict our ability to operate. Any future debt financing and equity financing, if available, may involve agreements that include, covenants limiting and restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures, entering into profit-sharing or other arrangements or declaring dividends. If we raise additional funds through collaborations, strategic alliances or marketing, distribution or licensing arrangements with third parties, we may be required to relinquish valuable rights to our technologies, future revenue streams, research programs or product candidates or to grant licenses on terms that may not be favorable to us. In addition, we may seek additional capital due to favorable market conditions or strategic considerations even if we believe we have sufficient funds for our current or future operating plans. If we are unable to raise capital when needed or on attractive terms, we could be forced to delay, reduce or altogether cease our research and development programs or future commercialization efforts. **The auditor's opinion 44We may need additional funding to pursue our business objectives. If we are unable to raise capital when needed, we could be forced to delay, reduce or altogether cease our development programs or commercialization efforts or cease operations altogether. Based on our audited financial statements current operating plan, excluding the expected net proceeds from our sale of the MIPLYFFA PRV (subject to customary closing conditions), our existing resources are expected to be sufficient to fund operating expense and capital investment requirements into 2029. Our liquidity needs will be largely determined by the success of operations through the progression of our products and product candidates in the future. We also may consider other sources to fund operations including: (1) out-licensing rights to certain of our technologies and product candidates, pursuant to which we would receive cash royalties and milestones; (2) raising additional capital through equity or debt financings or from other sources; (3) obtaining product candidate regulatory approvals, which would generate revenue, milestones and cash flow; (4) reducing spending on one or more research and development programs, including by discontinuing development; and / or (5) restructuring operations to change our overhead structure. We are in the early stages of our commercialization effort for OLPRUVA and MIPLYFFA and do not yet have a substantial basis to project future earnings, and our other sources of revenue are not sufficient to sustain our present activities fiscal year ended December 31, 2023, included in this annual report on Form 10-K their own. Accordingly, contains an explanatory paragraph relating to our ability to continue as a going concern may require us to obtain additional. The auditor's opinion on our audited financials to fund our operations. We expect statements for the year ended December 31, 2023, includes an explanatory paragraph stating that our recurring losses only sources of revenues will be through payments arising from sales of operations, stockholders' deficit and negative operating cash flows raise substantial doubt about our ability approved products and any other future arrangements related to continue as a going concern one of our product candidates. While we believe we cannot guarantee that we will be able to raise generate sufficient proceeds from the capital we need to continue sale of our approved products or operations product candidates, if approved, or there can be no assurances that we will be successful in these efforts or completing other transactions that will fully fund be able to resolve our liquidity issues or eliminate our operating losses expenses. Further, the recent economic uncertainty may dramatically reduce our ability to secure debt or equity financing necessary to support our operations. If we are delayed in obtaining additional funding or are unable to obtain sufficient funding complete a strategic transaction, we may discontinue would need to significantly reduce our operating plans and curtail some or our all of our product development activities on our product candidates, commercialization, and strategic plans. Accordingly, our or discontinue our business, prospects, financial condition and results of operations. Our future capital requirements will depend on be materially and adversely affected, and we may many factors be unable to continue as a going concern. If we are unable to continue as a going concern, we may have to liquidate including: the success in commercializing our approved products; the commercial revenue received from commercial sales of our approved products, MIPLYFFA and OLPRUVA, our or assets and may any of our product candidates subject to the terms of the AZSTARYS License Agreement, or sales of our product candidates for which we receive less than the value at which those assets are carried on our audited consolidated financial statements, and it is likely that investors will lose all or a part of their investment. If we seek additional financing to fund our business activities in the future and there remains substantial doubt about our ability to continue as a going concern, investors or other marketing approval in international jurisdictions would prevent the future, which may be affected by market conditions, including obtaining coverage and adequate reimbursement of our approved products, or any of our product candidates subject to the terms of the AZSTARYS License Agreement, or sales of our product candidates for which we receive marketing approval in the future, which may be affected by market conditions, including obtaining coverage and adequate reimbursement of our approved products, or any of our product candidates, from third-party payors, including government programs and managed care organizations, and competition within the therapeutic class to which our approved products, or any of our product candidates are assigned; the success progress and results of our preclinical studies, clinical trials, chemistry, manufacturing and controls, and other product development and commercialization activities; the scope, progress, results and costs of preclinical development, laboratory testing and clinical trials for our product candidates; the ability to obtain differentiating claims in commercializing the labels for our approved products product candidates; the number and development requirements of other product candidates that we may pursue; the costs, timing and outcome of regulatory review of our product candidates; the efforts necessary to institute post-approval regulatory compliance requirements; the costs and timing of future commercialization activities, including product manufacturing, marketing, sales and distribution, for any of our product candidates for which we receive marketing approval. the costs and timing of preparing, filing and prosecuting patent applications, maintaining and enforcing our intellectual property rights and defending any intellectual property-related claims; and the extent to which we acquire or in-license other product candidates and technologies. 45We Risks Related to Our Dependence on Third Parties We rely on and expect to continue to rely on third parties to conduct our clinical trials for our product candidates, and those third parties may not perform satisfactorily, including failing to meet deadlines for the completion of such trials. We have engaged and expect to continue to engage CROs for our planned clinical trials of our product candidates. We rely on and expect to continue to rely on CROs, as well as other third parties, such as clinical data management organizations, medical institutions and clinical investigators, to conduct those clinical trials. Agreements with such third parties might terminate for a variety of reasons, including a failure to perform by the third parties. If we need to enter into alternative arrangements, our drug development activities would be delayed. Our reliance on these third parties for research and development activities reduces our control over these activities but does not relieve us of our responsibilities. For example, we remain responsible for ensuring that each of our clinical trials is conducted in accordance with the general investigational plan and protocols for the trial. Moreover, the FDA requires us to comply with regulatory standards, commonly referred to as good clinical practices, or GCPs, for conducting, recording and reporting the results of clinical trials to assure that data and reported results are credible and accurate and that the rights, integrity and confidentiality of trial participants are protected. Regulatory authorities enforce these GCPs through periodic inspections of trial sponsors, investigators and trial sites. We also are required to register specified ongoing clinical trials and post the results of completed clinical trials on a government-sponsored database, ClinicalTrials.gov, within specified timeframes. In addition, we must conduct our clinical trials with product produced under cGMP requirements. Similar requirements apply in foreign jurisdictions. Failure to comply with these regulations may require us to repeat preclinical studies and clinical trials, which would delay the regulatory approval process. Failure to comply with the applicable requirements related to clinical investigations by us, our CROs or clinical trial sites can also result in clinical holds and termination of clinical trials, debarment, FDA or foreign regulatory authorities refusal to approve applications based on the clinical data, warning letters, withdrawal of marketing approval if the product has already been approved, fines and other monetary penalties, delays, adverse publicity and civil and criminal sanctions, among other consequences. Furthermore, these third parties may also have relationships with other entities, some of which may be our competitors. If these third parties do not successfully carry out their contractual duties, meet expected deadlines or conduct our clinical trials in accordance with regulatory requirements or our stated protocols, we will not be able to obtain, or may be delayed in obtaining, marketing approvals for our product candidates and will not be able to, or may be delayed in our efforts to, successfully commercialize our product candidates. In addition, investigators for our clinical trials may serve as scientific advisors or consultants to us from time to time and may receive cash or equity compensation in connection with such services. If these relationships and any related compensation result in perceived or actual conflicts of interest, or the FDA or foreign regulatory authorities conclude that the financial relationship may have affected the interpretation of the study, the integrity of the data generated at the applicable clinical trial site may be questioned and the utility of the clinical trial itself may be jeopardized, which could result in the delay or rejection of any NDA or foreign marketing authorization application we submit by the FDA or foreign regulatory authorities. Any such delay or rejection could prevent us from commercializing our product candidates. Further, our arrangements with investigators are also subject to scrutiny under other health care regulatory laws, such as the Anti-Kickback Statute and comparable foreign laws. We also rely on and expect to continue to rely on other third parties to store and distribute product supplies for our clinical trials. Any performance failure on the part of our distributors could delay clinical development or marketing approval of our product candidates or commercialization of our products, producing additional losses and depriving us of potential product revenue. If the third parties with whom we contract do not successfully carry out their contractual duties or obligations or meet expected deadlines or if the quality or accuracy of the clinical data they obtain is compromised due to the failure to adhere to our clinical protocols or regulatory requirements or for other reasons, our clinical trials may be extended, delayed or terminated, we may need to conduct additional trials, and we may not be able to obtain regulatory approval for or successfully commercialize our product candidates. As a result, the commercial prospects for our product candidates would be harmed, our costs could increase and our ability to generate revenue could be delayed. To the extent we are unable to successfully identify and manage the performance of third-party service providers in the future, our business may be adversely affected. We contract with third parties for the manufacture of our approved products, partnered products and product candidates that utilize SDX, sodium phenylbutyrate, and arimoclomol, and we expect to continue to do so. This reliance on third-party manufacturers increases the risk that we will not have sufficient quantities of SDX, sodium phenylbutyrate and arimoclomol, or such quantities at an acceptable cost, which could delay, prevent or impair commercialization or development efforts. We do not have any manufacturing facilities. We procure the bulk drug and, or such quantities at an acceptable cost, which could delay, prevent or impair commercialization or development efforts. We 46We do not have any manufacturing facilities. We procure the bulk drug substances for our approved products and product candidates from sole-source, third-party manufacturers and the partnered products and product candidates that utilize these moieties as the API used in our clinical trials from other third parties. We anticipate we will continue to do so for the foreseeable future. We also expect to continue to rely on third parties as we proceed with**

preclinical and clinical testing of our product candidates, as well as for commercial manufacture of our approved products, or any of our product candidates should such candidates receive marketing approval. This reliance on third parties increases the risk that we will not have sufficient quantities of SDX, sodium phenylbutyrate, arimoclomol, or other bulk drug substances or our approved products, partnered product or product candidates, or such quantities at an acceptable cost or quality, which could delay, prevent or impair our ability to timely conduct our clinical trials or our other development or commercialization efforts. We may be unable to establish any future agreements with third-party manufacturers or to do so on acceptable terms. Even if we are able to maintain our existing third-party relationships or establish any such agreements with other third-party manufacturers, reliance on third-party manufacturers entails additional risks, including: ● reliance on the third party for FDA and DEA, EMA and comparable foreign authorities' regulatory compliance and quality assurance; ● the possible misappropriation of our proprietary information, including our trade secrets and know-how; ● disruption and costs associated with changing suppliers, including additional regulatory filings; ● the possible breach, termination or nonrenewal of the agreement by the third party at a time that is costly or inconvenient for us; ● a delay or inability to procure or expand sufficient manufacturing capacity; ● manufacturing and product quality issues related to scale-up of manufacturing; ● costs and validation of new equipment and facilities required for scale-up; ● the inability to negotiate manufacturing agreements with third parties under commercially reasonable terms; ● termination or nonrenewal of manufacturing agreements with third parties in a manner or at a time that is costly or damaging to us; ● the reliance on a limited number of sources, and in some cases, single sources for product components, such that if we are unable to secure a sufficient supply of these product components, we will be unable to manufacture and sell our product candidates in a timely fashion, in sufficient quantities or under acceptable terms; and ● carrier disruptions or increased costs that are beyond our control. **Additionally, trade policies and geopolitical disputes and other international conflicts can result in tariffs, sanctions and other measures that restrict international trade, and can materially adversely affect our business, particularly if these measures affect regions where manufacturing and product development activities take place or raw materials are sourced. For example, tensions between the United States and China have led to a series of tariffs being imposed by the United States on imports from China, as well as other business restrictions. Countries may also adopt other measures, such as controls on imports or exports of goods, technology or data, that could adversely impact supply chains. As these tensions continue to rise, more targeted approaches on certain products, industries or companies could significantly impact our development and commercialization efforts. The U.S. government has recently imposed tariffs on certain foreign goods, and some foreign governments have threatened or instituted retaliatory tariffs on certain U.S. goods and have indicated a willingness to impose additional tariffs on U.S. products, which could increase the cost of goods needed to commercialize our products and continue development of our product candidates. Further, such actions by the U.S. could result in other retaliatory actions by those countries which could impact our ability to profitably commercialize our products in those jurisdictions. As a result, our business, operations, and financial condition could be materially harmed.** Any of these events could lead to clinical trial delays, failure to obtain regulatory approval or impact our ability to successfully commercialize our products, if approved. Some of these events could be the basis for FDA or foreign regulatory authorities action, including injunction, recall, seizure or total or partial suspension of production. **The 47** The facilities used by our contract manufacturers to manufacture our approved products, and any of our product candidates are subject to review by the FDA or comparable foreign regulatory authorities pursuant to inspections that will be conducted after we submit our marketing application to the FDA or the EMA, and such inspections could result in findings that lead to failure to obtain FDA or comparable foreign approval of such marketing applications. We do not, other than through our contractual arrangements, control the manufacturing process of our approved products, or any of our other product candidates, and we are completely dependent on, our contract manufacturing partners for compliance with cGMP requirements and for manufacture of both active drug substances and finished drug products. If our contract manufacturers cannot successfully manufacture material that conforms to our specifications and the strict regulatory requirements of the FDA or other regulatory authorities, we will not be able to secure and maintain regulatory approval of our marketing applications for the use of their manufacturing facilities for our products. In addition, other than through our contractual agreements, we have no control over the ability of our contract manufacturers to maintain adequate quality control, quality assurance and qualified personnel. If the FDA, or a comparable foreign regulatory authority, does not approve these facilities for the manufacturing of our approved products, or any of our other product candidates, or if it withdraws any such approval in the future, we may need to find alternative manufacturing facilities, which would significantly impact our ability to develop, obtain marketing approval for or market our approved products, or any of our other product candidates, if approved. Further, for our approved products and any of our product candidates, if approved, our suppliers will be subject to regulatory requirements, covering manufacturing, testing, quality control and record keeping relating to our approved products or any of our product candidates, if approved, and subject to ongoing inspections by the regulatory agencies. Failure by any of our suppliers of our other product candidates, product candidates, and we are completely dependent on, our contract manufacturing partners for compliance with cGMP requirements and for manufacture of both active drug substances and finished drug products. If our contract manufacturers cannot successfully manufacture material that conforms to our specifications and the strict regulatory requirements of the FDA or other regulatory authorities, we will not be able to secure and maintain regulatory approval of our marketing applications for the use of their manufacturing facilities for our products. In addition, other than through our contractual agreements, we have no control over the ability of our contract manufacturers to maintain adequate quality control, quality assurance and qualified personnel. If the FDA, or a comparable foreign regulatory authority, does not approve these facilities for the manufacturing of our approved products, or any of our other product candidates, or if it withdraws any such approval in the future, we may need to find alternative manufacturing facilities, which would significantly impact our ability to develop, obtain marketing approval for or market our approved products, or any of our other product candidates, if approved. Further, for our approved products and any of our product candidates, if approved, our suppliers will be subject to regulatory requirements, covering manufacturing, testing, quality control and record keeping relating to our approved products or any of our product candidates, if approved, and subject to ongoing inspections by the regulatory agencies. Failure by any of our suppliers to comply with applicable regulations may result in long delays and interruptions to our manufacturing capacity while we seek to secure another supplier that meets all regulatory requirements, as well as market disruption related to any necessary recalls or other corrective actions. Third-party manufacturers may not be able to comply with cGMP regulations or similar regulatory requirements outside the United States. Our failure, or the failure of our third-party manufacturers, to comply with applicable regulations could result in sanctions being imposed on us, including warning letters, clinical holds or termination of clinical trials, fines, injunctions, restitution, disgorgement, civil penalties, delays, suspension or withdrawal of approvals or other permits, FDA refusal to approve pending applications, product detentions, FDA or DEA consent decrees placing significant restrictions on or suspending manufacturing and distribution operations, debarment, refusal to allow import or export, product detentions, adverse publicity, dear-health-care-provider letters or other warnings, license revocation, seizures or recalls of product candidates, operating restrictions, refusal of government contracts or future orders under existing contracts and civil and criminal liability, including False Claims Act liability, exclusion from participation in federal health care programs, and corporate integrity agreements among other consequences, any of which could significantly and adversely affect supplies of our products. Our approved products that we are commercializing, and product candidates that we are currently developing, or may develop in the future, may compete with other product candidates and drugs for access to manufacturing facilities, and we may be unable to obtain access to these facilities on favorable terms. There are a limited number of manufacturers that operate under cGMP or comparable foreign regulations and that might be capable of manufacturing for us. Any performance failure on the part of our existing or future manufacturers could delay clinical development or marketing approval. We do not currently have arrangements in place for redundant supply or a second source for our approved products or product candidates bulk drug substance. If our current contract manufacturer for our approved products or product candidates bulk drug substance cannot perform as agreed, we may be required to replace such manufacturer and we may incur added costs and delays in identifying and qualifying any such replacement. Any performance failure or significant delay could negatively affect our business, results of operations and financial condition. We have entered into collaborations with Commave, to develop, manufacture and commercialize AZSTARYS worldwide. In addition, we may seek collaborations with third parties for the development or commercialization of our other product candidates, or in other territories. If those collaborations are not successful, we may not be able to capitalize on the market potential of AZSTARYS or any of our other product candidates, if approved. We entered into the AZSTARYS License Agreement with Commave pursuant to which we granted an exclusive, worldwide license to Commave to develop, manufacture and commercialize AZSTARYS. On behalf of Commave, Corium lead-leads all commercialization activities in the United States for AZSTARYS under the AZSTARYS License Agreement. We cannot guarantee that the AZSTARYS License Agreement will be successful or that we will receive any future payments under the AZSTARYS License Agreement. For instance, Commave has the option to terminate the AZSTARYS License Agreement, in its entirety or on a product-by-product and country-by-country basis, at their convenience either (i) prior to the first regulatory approval of a product upon sixty days prior written notice or (ii) subsequent to the first regulatory approval of a product upon one hundred twenty days prior written notice. Further, even if Commave does not terminate the AZSTARYS License Agreement, we cannot guarantee that we will receive any additional milestone or royalty payments under the AZSTARYS License Agreement. In addition, under the AZSTARYS License Agreement, we have limited control over the amount and timing of resources that Corium will dedicate to the development, manufacturing or commercialization of AZSTARYS, and we may not always agree with Corium's efforts. Our ability to generate revenue under the AZSTARYS License Agreement will depend, in part, on Corium's ability to successfully perform the functions assigned to it under the AZSTARYS License Agreement. We may also seek additional third-party collaborators for the development or commercialization of any of our other product candidates, which are not subject to the AZSTARYS License Agreement, or those that are subject to the AZSTARYS License Agreement, but the option is not exercised by Commave. In such cases, our likely collaborators would include large and mid-size pharmaceutical companies, regional, national and international pharmaceutical companies and biotechnology companies. If we do enter into any such collaboration arrangements with any third parties, we will likely have limited control over the amount and timing of resources that our collaborators dedicate to the development or commercialization of our approved products or any of our other product candidates. Our ability to generate revenue from these arrangements will depend on our collaborators' abilities to successfully perform the functions assigned to them in these arrangements. **Our 48** Our collaboration with Commave, or Collaborator, poses the following risks to us: ● the Collaborator has significant discretion in determining the efforts and resources that they will apply to these collaborations; ● the Collaborator may not perform their obligations as expected; ● the Collaborator may not pursue commercialization of AZSTARYS, any of our product candidates covered under the AZSTARYS License Agreement, if approved, or may elect not to continue or renew commercialization programs based on post-approval clinical trial results, changes in a Collaborator's strategic focus or available funding, or external factors, such as an acquisition, that divert resources or create competing priorities; ● the Collaborator could independently develop, or develop with third parties, products that compete directly or indirectly with AZSTARYS, or any of our other products covered under the AZSTARYS License Agreement, as applicable, if the Collaborator believes that competitive products are more likely to be successfully developed or can be commercialized under terms that are more economically attractive than ours; ● AZSTARYS, any of our other products covered under the AZSTARYS License Agreement, if approved, may be viewed by the Collaborator as competitive with their own product candidates or products, which may cause the Collaborator to cease to devote resources to the commercialization of AZSTARYS, or any of our other products covered under the AZSTARYS License Agreement, if approved; ● the Collaborator may not commit sufficient resources to the development, marketing and distribution of AZSTARYS and any of our

other products covered under the AZSTARYS License Agreement, as applicable; ● disagreements with the Collaborator, including disagreements over proprietary rights, contract interpretation or the preferred course of development or commercialization, might cause delays or termination of the development or commercialization of AZSTARYS, or any of our other products covered under the AZSTARYS License Agreement, as applicable, might lead to additional responsibilities for us with respect to AZSTARYS or any of our other products covered under the AZSTARYS License Agreement, or might result in litigation or arbitration, any of which would be time-consuming and expensive; ● the Collaborator may not properly maintain or defend our or their intellectual property rights or may use our or their proprietary information in such a way as to invite litigation that could jeopardize or invalidate such intellectual property or proprietary information or expose us to potential litigation; ● the Collaborator may infringe the intellectual property rights of third parties, which may expose us to litigation and potential liability; and ● the license agreements may be terminated by the Collaborator under specified circumstances and, if terminated, we could be required to raise additional capital to pursue further development or commercialization of AZSTARYS or any of our other products covered under the AZSTARYS License Agreement. If we enter into any future collaborations we will face similar risks with any future collaborators as well. The AZSTARYS License Agreement and any other licensing or collaboration agreements we may enter into may not lead to commercialization of AZSTARYS, or development of KP1077, or any of our other product candidates in the most efficient manner or at all. If **Corium Commave** or a future collaborator of ours were to be involved in a business combination, the continued pursuit and emphasis on our drug development or commercialization program could be delayed, diminished or terminated. **If we are not able to establish collaborations for our product candidates, we may have to alter our development and commercialization plans.** Our **49Our** produg development programs and the potential commercialization of our product candidates, if approved, will require substantial additional capital. For our product candidates, which are not subject to the terms of the AZSTARYS License Agreement, we may need to collaborate with pharmaceutical and biotechnology companies for the development and potential commercialization of those product candidates. We face significant competition in seeking appropriate collaborators. Whether we reach a definitive agreement for a collaboration will depend, among other things, upon our assessment of the collaborator's resources and expertise, the terms and conditions of the proposed collaboration and the proposed collaborator's evaluation of **several a number of** factors. Those factors may include the design or results of clinical trials, the likelihood of approval by the FDA or similar regulatory authorities outside the United States, the potential market for the subject product candidate, the costs and complexities of manufacturing and delivering such product candidate to patients, the potential of competing products, the existence of uncertainty with respect to our ownership of technology, which can exist if there is a challenge to such ownership without regard to the merits of the challenge, and industry and market conditions generally. The collaborator may also consider alternative product candidates or technologies for similar indications that may be available to collaborate on and whether such a collaboration could be more attractive than the one with us for our product candidate. Collaborations are complex and time-consuming to negotiate and document. In addition, there have been a significant number of recent business combinations among large pharmaceutical companies that have resulted in a reduced number of potential future collaborators. We may not be able to negotiate collaborations on a timely basis, on acceptable terms, or at all. If we are unable to do so, we may have to curtail the development of product candidates, reduce or delay one or more of our development programs, delay potential commercialization of our product candidates or reduce the scope of any sales or marketing activities of our product candidates, or increase our expenditures and undertake development or commercialization activities at our own expense of our product candidate. If we elect to increase our expenditures to fund development or commercialization activities on our own, we may need to obtain additional capital, which may not be available to us on acceptable terms or at all. If we do not have sufficient funds, we may not be able to further develop our product candidates or bring our product candidates to market and generate product revenue. **Provisions in our agreements with Aquestive and Commave may inhibit our ability to enter into future collaborations with third parties. We are party to a termination agreement with Aquestive Therapeutics, or Aquestive, that may limit the value of any sale, license or commercialization of AZSTARYS or KP1077. Under this termination agreement, Aquestive has the right to receive a royalty amount equal to 10% of any value generated by AZSTARYS or KP1077, and any product candidates which contain SDX, including royalty payments on any license of AZSTARYS or KP1077, the sale of AZSTARYS or KP1077 to a third party or the commercialization of AZSTARYS or KP1077. We also granted to Commave a right of first refusal to acquire, license or commercialize any additional product candidate which contains SDX and is intended to treat ADHD or any other CNS disorder with such right of first refusal expiring upon the acceptance of a new drug application for such product candidate. We also granted Commave a right of first negotiation and a right of first refusal, subject to specified exceptions, for any assignment of our rights under the AZSTARYS License Agreement. We cannot predict if these obligations will limit the value we may receive from any future sale or license of any additional product candidate. Risks Related to Our 50Our Intellectual Property** If we are unable to obtain and maintain trade secret protection or patent protection for our technology, our approved products or our product candidates, or if the scope of the patent protection obtained is not sufficiently broad, our competitors could develop and commercialize technology and drugs similar or identical to ours, and our ability to successfully commercialize our technology, our approved products, or our product candidates, if approved, may be impaired. Our success depends in large part on our ability to obtain and maintain trade secret protection of our proprietary LAT platform technology as well as patent protection in the United States and other countries with respect to our approved products, and any of our product candidates. We seek to protect our proprietary position by filing patent applications in the United States and abroad related to our product technology and product candidates. As part of the AZSTARYS License Agreement, Commave obtained from us an exclusive, worldwide license to certain patents that cover AZSTARYS. The patent prosecution process is expensive and time-consuming, and we may not be able to file and prosecute all necessary or desirable patent applications at a reasonable cost or in a timely manner. It is also possible that we will fail to identify patentable aspects of our research and development output before it is too late to obtain patent protection. We may not have the right to control the preparation, filing and prosecution of patent applications, or to maintain the rights to patents, licensed to third parties by us. Further, we may also not have the right to control the preparation, filing and prosecution of patent applications, or to maintain the rights to patents, licensed from third parties to us. Therefore, any such patents and applications may not be prosecuted and enforced in a manner consistent with the best interests of our business. If such licensors or licensees fail to maintain such patents, or lose rights to those patents, the rights we have in- or out- licensed may be reduced or eliminated. The patent position of biotechnology and pharmaceutical companies, generally, is highly uncertain, involves complex legal and factual questions and has in recent years been the subject of much litigation. In addition, the laws of foreign countries may not protect our rights to the same extent as the laws of the United States or visa-versa. For example, European patent law restricts the patentability of methods of treatment of the human body more than United States law. Publications of discoveries in the scientific literature often lag behind the actual discoveries, and utility, or equivalent, patent applications in the United States and other jurisdictions are typically, for example, not published until 18 months after the filing date of such patent applications, or in some cases not at all. Therefore, we cannot know with certainty whether we were the first to make and / or use the inventions claimed in our owned or licensed patents or pending patent applications, or that we were the first to file for patent protection of such inventions. As a result, the issuance, scope, priority, **validity, enforceability and commercial value of our patent rights are highly uncertain. Our pending and future patent applications may not result in patents** being **marketed**-issued that protect our product candidates, in whole or in part, or which effectively prevent others from commercializing competitive technologies and drugs. Changes in either the patent laws or interpretation of the patent laws in the United States and other countries may diminish the value of our patents or narrow the scope of our patent protection. **Our 51Our** patent position is subject to numerous additional risks, including the following: ● we may fail to seek patent protection for inventions that are important to our success; ● our pending patent applications may not result in issued patents; ● we cannot be certain that we are the first to invent the inventions covered by pending patent applications or that we are the first to file such applications and, if we are not, we may be subject to priority disputes or lose rights; ● we may be required to disclaim part or all of the term of certain patents or all of the term of certain patent applications; ● we may not be able to acquire patent term extensions or supplemental certificates of certain patents, domestic or foreign, due to regulatory delays, among others, which may affect the term of enforceability of such patents over time; ● we may file patent applications but have claims restricted or we may not be able to supply sufficient data to support our claims and, as a result, may not obtain the original claims desired or we may receive restricted claims; alternatively, it is possible that we may not receive any patent protection from an application; ● even if our owned and licensed patent applications issue as patents, they may not issue in a form that will provide us with any meaningful protection, and may not be of sufficient scope or strength to provide us with any commercial advantage; ● our competitors may be able to design around our owned or licensed patents by developing similar or alternative technologies or drugs without infringing on our intellectual property rights; ● we could inadvertently abandon a patent or patent application, resulting in the loss of protection of intellectual property rights in a particular country, and we, our collaborators or our patent counsel may take action resulting in a patent or patent application becoming abandoned which may not be able to be reinstated or if reinstated, may suffer patent term adjustments or loss; ● the claims of our issued patents or patent applications when issued may not cover our product candidates; ● no assurance can be given that our patents would be declared by a court or tribunal, domestic or foreign, to be valid or enforceable or that a competitor's technology or product would be found by a court or tribunal, domestic or foreign, to infringe our patents and our patents or patent applications may be challenged by third parties in patent litigation, domestic or foreign, or in proceedings before the United States Patent and Trademark Office, or the USPTO, or its foreign counterparts, and may ultimately be declared invalid or unenforceable or narrowed in scope; ● there may be prior art of which we are not aware that may affect the validity or enforceability of a patent claim and there may be prior art of which we are aware, but which we do not believe affects the validity or enforceability of a claim, which may, nonetheless, ultimately be found to affect the validity or enforceability of a claim; ● third parties may develop products that have the same or similar effect as our products without infringing our patents; ● third parties may intentionally circumvent our patents by means of alternate designs or processes or file applications or be granted patents that would block or hurt our efforts; ● there may be dominating or intervening patents relevant to our product candidates of which we are not aware; ● obtaining regulatory approval for pharmaceutical products is a lengthy and complex process, and as a result, any patents covering our product candidates may expire before or shortly after such product candidates are approved and commercialized; ● the patent and patent enforcement laws of some foreign jurisdictions do not protect intellectual property rights to the same extent as laws in the United States, and many companies have encountered significant difficulties in protecting and defending such rights in foreign jurisdictions; and ● we may not develop additional proprietary technologies that are patentable. **Any 52Any** of these factors could hurt our ability to gain full patent protection for our products. Registered trademarks and trademark applications in the United States and other countries are subject to similar risks as described above for patents and patent applications, in addition to the risks described below. Further, a third party may misappropriate or reverse engineer our proprietary LAT platform technology, which could limit our ability to stop others from using or commercializing similar or identical technology and resultant product candidates, product technology or produgs, or limit the duration of the trade secret protection of our proprietary LAT platform technology. Moreover, we may be subject to a third-party pre-issuance submission of prior art to the USPTO, or become involved in opposition, litigation, nullity, derivation, reexamination, inter partes review, post-grant review or interference proceedings challenging our patent rights or the patent rights of others. An adverse determination in any such submission, proceeding or litigation could reduce the scope of, or invalidate, our patent rights, allow third parties to commercialize our technology or drugs and compete directly with us, without payment to us or result in our inability to manufacture or commercialize drugs without infringing third-party patent rights. In addition, if the breadth or strength of protection provided by our patents and patent applications is threatened, it could dissuade companies from collaborating with us to seek patent protection or to license, develop or commercialize current or future product candidates. In addition, the issuance of a patent is not conclusive as to its

inventorship, ownership, scope, priority, validity or enforceability, and our owned and licensed patents may be challenged in the courts, patent offices and tribunals in the United States and abroad. Such challenges may result in loss of exclusivity or in patent claims being narrowed, invalidated or held unenforceable, in whole or in part, which could limit our ability to stop others from using or commercializing similar or identical technology and drugs, or limit the duration of the patent protection of our product technology, product candidates and products. ~~Changes in patent law in the United States and other jurisdictions could alter or diminish the value of patents in general, thereby impairing our ability to protect our products and technologies.~~ The standards that the USPTO and patent offices in other countries use to grant patents are not always applied predictably or uniformly and can change. Changes in either the patent laws or interpretation of the patent laws in the United States and other countries could increase the uncertainties and costs, and may diminish our ability to protect our inventions, obtain, **maintain, and enforce our intellectual property rights and, more generally, could affect the value of our intellectual property or narrow the scope of our owned and licensed patents.** In commercialize our technology or drugs and compete directly with us, without payment to us or result in our inability to manufacture or commercialize drugs without infringing third-party patent rights. In addition, if the breadth or strength of protection provided by our patents and patent applications is threatened, it could dissuade companies from collaborating with us to seek patent protection or to license, develop or commercialize current or future product candidates. In addition, the issuance of a patent is not conclusive as to its inventorship, ownership, scope, priority, validity or enforceability, and our owned and licensed patents may be challenged in the courts, patent offices and tribunals in the United States and abroad. Such challenges may result in loss of exclusivity or in patent claims being narrowed, invalidated or held unenforceable, in whole or in part, which could limit our ability to stop others from using or commercializing similar or identical technology and drugs, or limit the duration of the patent protection of our product technology, product candidates and products. ~~Changes in patent law in the United States and other jurisdictions could alter or diminish the value of patents in general, thereby impairing our ability to protect our products and technologies.~~ The standards that the USPTO and patent offices in other countries use to grant patents are not always applied predictably or uniformly and can change. Changes in either the patent laws or interpretation of the patent laws in the United States and other countries could increase the uncertainties and costs, and may diminish our ability to protect our inventions, obtain, maintain, and enforce our intellectual property rights and, more generally, could affect the value of our intellectual property or narrow the scope of our owned and licensed patents. In addition, the patent positions of companies in the development and commercialization of pharmaceuticals are particularly uncertain. The United States Supreme Court has ruled on several patent cases in recent years, either narrowing the scope of patent protection available in certain circumstances or weakening the rights of patent owners in certain situations. Depending on future actions by the United States Congress, the United States courts, the USPTO and the relevant law-making bodies in other countries, the laws and regulations governing patents could change in unpredictable ways that would weaken our ability to obtain new patents or to enforce our existing patents and patents that we might obtain in the future. For example, in the 2013 case *Assoc. for Molecular Pathology v. Myriad Genetics, Inc.*, the United States Supreme Court held that certain claims to DNA molecules are not patentable. While we do not believe that any of the patents owned or licensed by us will be found invalid based on this decision, future decisions by the courts, the United States Congress or the USPTO may impact the value of our patents. For another example, on September 16, 2011, the Leahy-Smith America Invents Act, or the Leahy-Smith Act, was signed into law. The Leahy-Smith Act includes a number of significant changes to U.S. patent law. These include provisions that affect the way patent applications are prosecuted in the United States, redefine prior art and may also affect patent litigation. The USPTO recently developed new regulations and procedures to govern administration of the Leahy-Smith Act, and many of the substantive changes to patent law associated with the Leahy-Smith Act, and in particular, the first-to-file provisions, only became effective on March 16, 2013. The Leahy-Smith Act and its implementation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents. For instance, the Leahy-Smith Act established the inter partes review and post grant review procedures that has lowered the burden of proof for invalidity challenges to issued patents and limited the ability to amend patent claims in response to such challenges. In addition, patent reform legislation may pass in the future that could lead to additional uncertainties and increased costs surrounding the prosecution, enforcement and defense of our owned and licensed patents and / or patent applications. **We may become involved in lawsuits to protect or enforce our patents or other intellectual property, which could be expensive, time consuming and unsuccessful.** Competitors **53** Competitors or other third parties may infringe our patents, trademarks, copyrights or other intellectual property. To counter infringement or unauthorized use, we may be required to file infringement claims, which can be expensive and time consuming and divert the time and attention of our management and scientific personnel. Our pending patent applications cannot be enforced against third parties practicing the technology claimed in such applications unless and until a patent issues from such applications. Any claims we assert against perceived infringers could provoke these parties to assert counterclaims against us alleging that we infringe their patents, in addition to counterclaims asserting that our patents are invalid or unenforceable, or both. In patent litigation in the United States, defendant counterclaims alleging invalidity and / or unenforceability are commonplace. Grounds for a validity challenge could be an alleged failure to meet any of several statutory requirements, including lack of novelty, obviousness, non-enablement or insufficient written description. Grounds for an unenforceability assertion could be an allegation that someone connected with prosecution of the patent withheld relevant information from the USPTO or made a misleading statement during prosecution. The outcome following legal assertions of invalidity and unenforceability is unpredictable. In any patent infringement proceeding, there is a risk that a court will decide that a patent of ours is invalid or unenforceable, in whole or in part, and that we do not have the right to stop the other party from using the invention at issue. There is also a risk that, even if the validity of such patents is upheld, the court will construe the patent's claims narrowly or decide that we do not have the right to stop the other party from using the invention at issue on the grounds that our patent claims do not cover the invention, or decide that the other party's use of our patented technology falls under the safe harbor to patent infringement under 35 U.S.C. § 271 (e) (1). An adverse outcome in a litigation or proceeding involving our patents could limit our ability to assert our patents against those parties or other competitors and may curtail or preclude our ability to exclude third parties from making and selling similar or competitive products and technologies. Any of these occurrences could adversely affect our competitive business position, business prospects and financial condition. Similarly, if we assert trademark infringement claims, a court may determine that the marks we have asserted are invalid or unenforceable, or that the party against whom we have asserted trademark infringement has superior rights to the marks in question. In this case, we could ultimately be forced to cease use of such trademarks. ~~Third parties may initiate legal proceedings alleging that we are infringing their intellectual property rights, the outcome of which would be uncertain and could significantly harm our business.~~ Our commercial success depends upon our ability, and the ability of any collaborators, to develop, manufacture, market and sell our product candidates and use our proprietary technologies without infringing the proprietary rights of third parties. There is considerable intellectual property litigation in the biotechnology and pharmaceutical industries. In particular, we are focused on developing product candidates based on widely used therapeutic agents or drugs, many of which may be protected by proprietary rights of third parties. Although we seek to develop proprietary prodrug formulations that do not infringe the intellectual property rights of others, we may become party to, or threatened with, future adversarial proceedings or litigation, domestic or foreign, regarding intellectual property rights with respect to our prodrugs or other aspects of our technology, including, for example, interference or derivation proceedings before the USPTO. Third parties may assert infringement claims against us based on existing patents or patents that may be granted in the future. If we are found to infringe a third party's intellectual property rights, we could be required to obtain a license from such third party to continue developing and marketing our technology and drugs. However, we may not be able to obtain any required license on commercially reasonable terms, or at all. Even if we were able to obtain a license, it could be non-exclusive, thereby giving our competitors access to the same technologies licensed to us. We could be forced, including by court order, to cease commercializing the infringing technology or product. In addition, we could be found liable for monetary damages, including treble damages and attorneys' fees if we are found to have willfully infringed a patent. A finding of infringement could prevent us from commercializing our product candidates or force us to cease some or all of our business operations. Competing products may also be sold in other countries in which our patent coverage might not exist or be as strong. If we lose a foreign patent lawsuit alleging our infringement of a competitor's patent, we could be prevented from marketing our products in one or more foreign countries. As a result, our ability to grow our business and compete in the market may be harmed. **Intellectual 54 Intellectual** property litigation could cause us to spend substantial resources and distract our personnel from their normal responsibilities. Even if resolved in our favor, litigation or other legal proceedings relating to intellectual property claims may cause us to incur significant expenses and could distract our technical and management personnel from their normal responsibilities. In addition, there could be public announcements of the results of hearings, motions or other interim proceedings or developments. If securities analysts or investors perceive these results to be negative, it could hurt the price of our common stock. Such litigation or proceedings could substantially increase our operating losses and reduce the resources available for development activities or any future sales, marketing or distribution activities. We may not have sufficient financial or other resources to conduct such litigation or proceedings adequately. Some of our competitors may be able to sustain the costs of such litigation or proceedings more effectively than we can because of their greater financial resources. Uncertainties resulting from the initiation and continuation of patent litigation or other proceedings could compromise our ability to compete in the marketplace. ~~We may need to license intellectual property from third parties, and such licenses may not be available or may not be available on commercially reasonable terms.~~ A third party may hold intellectual property rights, including patent rights, which are important or necessary to the development of our product candidates. It may be necessary for us to use the patented or proprietary technology of third parties to commercialize our product candidates, in which case we would be required to obtain a license from these third parties. Such a license may not be available on commercially reasonable terms, or at all, and we could be forced to accept unfavorable contractual terms. If we are unable to obtain such licenses on commercially reasonable terms, our business could be harmed. ~~If we or our third-party licensors fail to comply with our obligations in our intellectual property licenses and funding arrangements with third parties, we could lose rights that are important to our business.~~ We are currently party to license agreements for technologies that we anticipate using in our product development activities. In the future, we may become party to licenses that are important for product development and commercialization. If we or our third-party licensors fail to comply with the obligations under current or future license and funding agreements, our counterparties may have the right to terminate these agreements, we may be forced to terminate these agreements or we may no longer effectively rely on any licenses to us under these agreements, in which event we might not be able to develop, manufacture or market any product or technology that is covered by these agreements or may face other penalties under the agreements. Such an occurrence could materially and adversely affect the value of a product candidate being developed under any such agreement or could restrict our drug discovery activities. Termination of these agreements or reduction or elimination of our rights under these agreements may result in our having to negotiate new or reinstated agreements with less favorable terms or cause us to lose our rights under these agreements, including our rights to important intellectual property or technology. ~~The scope of our intellectual property may be reduced or may need to be reduced due to third-party intellectual property claims.~~ Our competitors may have filed, and may in the future file, patent applications covering technology similar to ours. Any such patent application may have priority over our patent applications, which could further require us to obtain rights to issued patents covering such technologies. If another party has filed a U.S. patent application on inventions similar to ours that claims priority to an application filed prior to March 16, 2013, we may have to participate in an interference proceeding declared by the USPTO to determine priority of invention in the United States. The costs of these proceedings could be substantial, and it is possible that such efforts would be unsuccessful if, unbeknownst to us, the other party had independently arrived at the same or similar invention prior to our own invention, resulting in a loss of our U.S. patent position with respect to such inventions. In addition, changes enacted on March 16, 2013, to the U.S. patent laws under the

Leahy- Smith Act resulted in the United States changing from a “ first to invent ” country to a “ first to file ” country.As a result,we may lose the ability to obtain a patent if another party files with the USPTO first and could become involved in proceedings before the USPTO to resolve disputes related to inventorship.We may also become involved in similar proceedings in other jurisdictions.Furthermore,recent changes in U.S.patent law under the Leahy- Smith Act allow for post- issuance challenges to U.S.patents,including ex parte re-examinations,inter partes reviews and post- grant reviews.There is significant uncertainty as to how the new laws will be applied.If our U.S.patents are challenged using such procedures,we may not prevail,possibly resulting in altered or diminished claim scope or loss of patent rights altogether.Similarly,some countries,notably in Europe,also have post-grant opposition proceedings or nullity proceedings that can result in changes in scope or cancellation of patent claims. ~~We may be subject to claims by third parties asserting that we or our employees have misappropriated their intellectual property or claiming ownership of what we regard as our own intellectual property.~~ **The 55** ~~The~~ FDA and foreign regulatory authorities closely regulate promotional materials and other promotional activities.Even if the FDA or foreign regulatory authorities initially approve product labeling that includes a description of our improved attribute claims,the FDA and foreign regulatory authorities may object to our marketing claims and product advertising campaigns.Failure to comply with the FDA’ s and comparable foreign regulatory authorities’ promotional,marketing and advertising laws and regulations could lead to the issuance of warning letters,cyber letters,or untitled letters,adverse publicity,the requirement for dear- health- care- provider letters or other corrective information,fines and other monetary penalties,civil or criminal prosecution,including False Claims Act liability,restrictions on our operations and other operating requirements through consent decrees or corporate integrity agreements,debarment,exclusion from participation in federal health care programs and refusal of government contracts or future orders under existing contracts,among other consequences.Any of these consequences would harm the commercial success of our products.Further,our promotional materials,statements and training methods must comply with the FDA’ s and comparable foreign regulatory authorities’ prohibition of the promotion of unapproved,or off- label,use.Any regulatory approval that the FDA grants is limited to those specific diseases and indications for which a product is deemed to be safe and effective by FDA.Similar requirements apply in foreign jurisdictions.For example,the FDA- approved label for AZSTARYS is limited to the acute treatment of ADHD in patients 6 years of age and older,and the FDA- approved label for APADAZ is limited to the short-term (no more than 14 days) management of acute pain severe enough to require an opioid analgesic and for which alternative treatments are inadequate.Physicians may use our products off- label,as the FDA does not restrict or regulate a physician’ s independent choice of treatment within the practice of medicine.However,if the FDA or foreign regulatory authorities determine that our promotional materials,statements or training constitutes promotion of an off- label use,it could request that we modify our promotional materials,statements or training methods or subject us to regulatory or enforcement actions,such as the issuance of an untitled letter,a warning letter,injunction,seizure,civil fine,disgorgement of money,operating restrictions or criminal penalties.We may also be subject to actions by other governmental entities or private parties,such as the False Claims Act,civil whistleblower or “ qui tam ” actions.It is also possible that other federal,state or foreign enforcement authorities might take action if they consider our promotional or training materials to constitute promotion of an off- label use,which could result in significant fines or penalties under other statutory authorities,such as laws prohibiting false claims for reimbursement.In that event,our reputation could be damaged and adoption of the products could be impaired.In addition,the off- label use of our products may increase the risk of product liability claims.Product liability claims are expensive to defend and could divert our management’ s attention,result in substantial damage awards against us and harm our reputation. ~~Any trademarks we may obtain may be infringed or successfully challenged,resulting in harm to our business.~~ We expect to rely on trademarks as one means to distinguish our product candidates that are approved for marketing from the products of our competitors.We have registered trademarks,including those for LAT,Zevra,and OLPRUVA.In addition,we have solicited and applied for trademarks for the Zevra logo and several potential trade names and logos for future product candidates.Third parties may oppose or attempt to cancel our trademark applications or trademarks,or otherwise challenge our use of the trademarks.If our trademarks are successfully challenged,we could be forced to rebrand our products,which could result in loss of brand recognition and could require us to devote resources to advertising and marketing new brands.Our competitors may infringe our trademarks and we may not have adequate resources to enforce our trademarks. ~~If we are unable to protect the confidentiality of our trade secrets,our business and competitive position would be harmed.~~ In addition to seeking patent and trademark protection for our product candidates,we also rely on trade secrets,including unpatented show-how, know- how,technology and other proprietary information,to maintain our competitive position.We seek to protect our trade secrets,in part,by entering into non- disclosure and confidentiality agreements with parties who have access to them,such as our employees,corporate collaborators,outside scientific collaborators,contract manufacturers,consultants,advisors and other third parties.We also enter into confidentiality and invention or patent assignment agreements with our employees and consultants.Despite these efforts,any of these parties may breach the agreements and disclose our proprietary information,including our trade secrets.Further,we may need to share our trade secrets and confidential know- how with future business partners,collaborators,contractors and others located in countries at heightened risk of theft of trade secrets,including through direct intrusion by private parties or actors in other countries,and those affiliated with or controlled by state actors.Monitoring unauthorized uses and disclosures of our intellectual property,including our trade secrets,is difficult,and we do not know whether the steps we have taken to protect our intellectual property will be effective.In addition,we may not be able to obtain adequate remedies for any such breaches.Enforcing a claim that a party illegally disclosed or misappropriated a trade secret is difficult,expensive and time- consuming,and the outcome is unpredictable.In addition,some courts inside and outside the United States are less willing or unwilling to protect trade secrets.Moreover,our competitors may independently develop or reverse engineer knowledge,methods,show- how and know- how equivalent to our trade secrets.Competitors could purchase our products and replicate some or all of the competitive advantages we derive from our development efforts for technologies on which we do not have patent protection.If any of our trade secrets were to be lawfully obtained or independently developed by a competitor,we would have no right to prevent them,or those to whom they communicate such trade secrets,from using that technology or information to compete with us.If any of our trade secrets were to be disclosed to or independently developed by a competitor,our competitive position would be harmed. ~~We may not be able to protect our intellectual property rights throughout the world.~~ **Patents 56** ~~Patents~~ are of national or regional effect,and filing,prosecuting and defending patents on all of our products and technologies throughout the world would be prohibitively expensive.As such,our intellectual property rights in some countries outside the United States can be less extensive than those in the United States and we may not be able to prevent third parties from practicing our inventions in all countries outside the United States,or from selling or importing products made using our inventions in and into the United States or other jurisdictions.Competitors may use our technologies in jurisdictions where we have not obtained patent protection to develop their own products or technology and may export otherwise infringing products or technology to territories where we have patent protection,but enforcement rights are not as strong as those in the United States.These products may compete with our products and technologies,and our patents or other intellectual property rights may not be effective or sufficient to prevent them from competing.Further,the legal systems of certain countries,particularly certain developing countries,do not favor the enforcement of patents and other intellectual property protection,particularly those relating to pharmaceuticals or biologics,which could make it difficult for us to stop the infringement of our patents or marketing of competing products in violation of our proprietary rights generally.Proceedings to enforce our patent rights in other jurisdictions could result in substantial costs and divert our efforts and attention from other aspects of our business,could put our patents at risk of being invalidated or interpreted narrowly and our patent applications at risk of not issuing and could provoke third parties to assert claims against us.We may not prevail in any such lawsuits that we initiate and the damages and other remedies awarded,if any,may not be commercially meaningful.Similarly,if our trade secrets are disclosed in another jurisdiction,competitors worldwide could have access to our proprietary information and we may be without satisfactory recourse.Such disclosure could have a material adverse effect on our business.Moreover,our ability to protect and enforce our intellectual property rights may be adversely affected by unforeseen changes in intellectual property laws of other countries.In addition,certain developing countries,including China and India,have compulsory licensing laws under which a patent owner may be compelled to grant licenses to third parties.In those countries,we and our licensors may have limited remedies if patents are infringed or if we or our licensors are compelled to grant a license to a third party,which could materially diminish the value of those patents.In addition,many countries limit the enforceability of patents against government agencies or government contractors.This could limit our potential revenue opportunities.Accordingly,our efforts to enforce our intellectual property rights around the world may be inadequate **to obtain a significant commercial advantage from the intellectual property that we develop or license.** **In 2012,the European Patent Package,or EU Patent Package,regulations were passed with the goal of providing a single pan- European Unitary Patent and a new European Unified Patent Court,or UPC,for litigation involving European patents.** **The EU Patent Package went into effect June 1,2023.** **Under the UPC,all European patents,including those issued prior to ratification of the European Patent Package,will by default automatically fall under the jurisdiction of the UPC.** **The UPC will provide our competitors with a new forum to centrally revoke our European patents,and allow for the possibility of a competitor to obtain pan- European injunctions.** **It will be several years before we will understand the scope of patent rights that will be recognized and the strength of patent remedies that will be provided by the UPC.** **Under the EU Patent Package,we will have the right to opt our patents out of the UPC over the first seven years of the court’ s existence,but doing so may preclude us from realizing the benefits of the new unified court.** **Our decision to seek approval of our product candidates under certain regulatory pathways,such as the 505 (b) (2) NDA pathway for the FDA,may increase the risk that patent infringement suits are filed against us,which would delay FDA or comparable foreign regulatory authorities’ approval of such product candidates.** **Regarding any NDA that we may submit under the 505 (b) (2) NDA pathway,if there are patents that claim the approved drug contained in our product candidates and referenced in our 505 (b) (2) NDA,we must certify to the FDA and notify the patent holder that any patents listed for the approved drug in the FDA’ s Orange Book publication are invalid,unenforceable or will not be infringed by the manufacture,use or sale of our prodrug.** **If a patent infringement lawsuit is filed against us within 45 days of its receipt of notice of our certification,the FDA is automatically prevented from approving our 505 (b) (2) NDA until the earliest of 30 months,expiration of the patent,settlement of the lawsuit or a court decision in the infringement case that is favorable to us,or such shorter or longer period as may be ordered by a court.** **Such actions are routinely filed by patent owners.** **Accordingly,we may invest considerable time and expense in the development of our product candidates only to be subject to significant delay and patent litigation before our product candidates may be commercialized.** **We may not be successful in defending any patent infringement claim.** **Even if we are found not to infringe,or a plaintiff’ s patent claims are found invalid or unenforceable,defending any such infringement claim would be expensive and time- consuming,and would delay launch of our product candidates and distract management from their normal responsibilities.** **57** **In** order to market and sell our products in the **EU European Union** and any other jurisdictions, we must obtain separate marketing approvals and comply with numerous and varying regulatory requirements. The approval procedure varies among countries and can involve additional testing. The time required to obtain approval may differ substantially from that required to obtain FDA approval. The regulatory approval process outside the United States generally includes all of the risks associated with obtaining FDA approval. In addition, in many countries outside the United States, it is required that the product be approved for reimbursement before the product can be approved for sale in that country. We may not obtain approvals from regulatory authorities outside the United States on a timely basis, if at all. Approval by the FDA does not ensure approval by regulatory authorities in other countries or jurisdictions, and approval by one regulatory authority outside the United States does not ensure approval by regulatory authorities in other countries or jurisdictions or by the FDA. However, failure to obtain approval in one jurisdiction may impact our

ability to obtain approval elsewhere. We may not be able to file for marketing approvals and may not receive necessary approvals to commercialize our products in any market. A variety of risks associated with marketing our approved products and any of our product candidates, if approved, internationally, could affect our business. We may seek regulatory approval for our approved products and any of our product candidates, if approved, outside of the United States and, accordingly, we expect that we will be subject to additional risks related to operating in foreign countries if we obtain the necessary approvals, including: • differing regulatory requirements in foreign countries; • the potential for so-called parallel importing, which is what happens when a local seller, faced with high or higher local prices, opts to import goods from a foreign market with low or lower prices rather than buying them locally; • unexpected changes in tariffs, trade barriers, price and exchange controls and other regulatory requirements; • economic weakness, including inflation, labor shortages, supply chain shortages, or other economic or political uncertainties or instability in particular foreign economies and markets; • compliance with tax, employment, immigration and labor laws for employees living or traveling abroad; • foreign taxes, including withholding of payroll taxes; • foreign currency fluctuations, which could result in increased operating expenses and reduced revenue, and other obligations incident to doing business in another country; • difficulties staffing and managing foreign operations; • workforce uncertainty in countries where labor unrest is more common than in the United States; • potential liability under the Foreign Corrupt Practices Act of 1977 or comparable foreign regulations; • challenges enforcing our contractual and intellectual property rights, especially in those foreign countries that do not respect and protect intellectual property rights to the same extent as the United States; • production shortages resulting from any events affecting raw material supply or manufacturing capabilities abroad; and • business interruptions resulting from geo-political actions, including war and terrorism, such as the current situation with Ukraine and Russia. These and other risks associated with our international operations may compromise our ability to achieve or maintain profitability.

Our approved products are, and any of our product candidates for which we obtain marketing approval will remain subject to significant post-marketing regulatory requirements and oversight. Our approved products are, and any of our product candidates for which we obtain marketing approval could be, subject to significant post-marketing regulatory requirements and oversight, including the submission of reports to regulatory authorities and surveillance to monitor the safety and efficacy of the product, significant limitations related to use restrictions for specified age groups, warnings, precautions or contraindications, and burdensome post-approval study or risk management requirements. For example, we are required to conduct pediatric studies related to AZSTARYS to evaluate its safety and effectiveness for the claimed indication in pediatric patients. Under the AZSTARYS License Agreement, Corium will be responsible for these regulatory activities going forward, and we cannot guarantee they will be complied with. For OLPURVA for oral suspension in the U. S. for the treatment of certain patients with UCDs, **and for MIPLYFFA for orally-delivered treatment for NPC**, the manufacturing processes, labeling, packaging, distribution, adverse event reporting, storage, advertising, promotion and recordkeeping for the product will be subject to extensive and ongoing regulatory requirements. These requirements include submissions of safety and other post-marketing information and reports, registration, as well as continued compliance with cGMP and comparable foreign regulations and GCP for any clinical trials that we conduct post-approval. In addition, the manufacturing processes, labeling, packaging, distribution, adverse event reporting, storage, advertising, promotion, import, export and recordkeeping for any approved drugs are subject to extensive and ongoing regulatory requirements. These requirements include submissions of safety and other post-marketing information and reports, registration and listing requirements, payment of substantial annual product and establishment fees, labeling requirements, promotional, marketing and advertising requirements, requirements related to further development, packaging, storage and distribution requirements, cGMP requirements relating to manufacturing, quality control, quality assurance and corresponding maintenance of records and documents, requirements regarding the distribution of samples to physicians and recordkeeping. If there are any modifications to the drug, including changes in indications, labeling, manufacturing processes or facilities, or new safety issues arise, a new or supplemental NDA, a post-implementation notification or other reporting may be required or requested depending on the change, which may require additional data or additional preclinical studies and clinical trials. Our approved products are, and if marketing approval of any of our product candidates is granted, such product candidates may be, subject to limitations on the indicated uses for which the product may be marketed or to the conditions of approval, including the requirement to implement a REMS, which could involve requirements for, among other things, a medication guide, special training for prescribers and dispensers, and patient registries. **For example, in September 2018, the FDA approved the Opioid Analgesic REMS for ER/LA and IR opioids as one strategy among multiple national and state efforts to reduce the risk of abuse, misuse, addiction, overdose, and deaths due to prescription opioid analgesics. We anticipate that any opioid product candidates that we may choose to develop in the future, if approved by the FDA, are likely to also be subject to a REMS requirement.** In addition, the FDA may also impose requirements for **or costly post-marketing studies or clinical trials and surveillance to monitor the EMA safety or efficacy of the product.** The FDA may also impose requirements for costly post-marketing studies or clinical trials and surveillance to monitor the safety or efficacy of the product. Products may be approved with a label that limits their approved uses, including more limited subject populations, than we request, and regulatory authorities may require that contraindications, warnings or precautions be included in the product labeling, including a boxed warning, or may approve a product candidate with a label that does not include the labeling claims necessary or desirable for the successful commercialization of that product candidate, which could limit sales of the product. For instance, the label for AZSTARYS contains black box warnings regarding the risks of abuse and dependence. Violations of the FDCA relating to the promotion of prescription drugs may lead to a number of actions and penalties, including warning letters, cyber letters, or untitled letters, adverse publicity, the requirement for dear-health-care-provider letters or other corrective information, fines and other monetary penalties, civil or criminal prosecution, including False Claims Act liability, restrictions on our operations and other operating requirements through consent decrees or corporate integrity agreements, debarment, exclusion from participation in federal health care programs and refusal of government contracts or future orders under existing contracts, among other consequences. **In 59** In addition, later discovery of previously unknown adverse events or other problems with our product products, including those related to manufacturers or manufacturing processes, or failure to comply with regulatory requirements, may have negative consequences, including: • adverse inspectional findings; • restrictions on such product products, distribution, manufacturers or manufacturing processes; • restrictions on the labeling or marketing of a drug; • additional warnings or other restrictions on the product's indicated use, label, or marketing; • issuance of safety alerts, dear-healthcare-provider letters, press releases or other communications containing warnings regarding the product; • requirement to establish or modify a REMS or similar risk management programs; • requirement to conduct post-marketing studies or surveillance; • restrictions on drug distribution or use; • requirements to conduct post-marketing studies or clinical trials; • warning letters; • recall or withdrawal of the product products from the market; • refusal to approve pending applications or supplements to approved applications that we submit and other delays; • clinical holds, or the suspension or termination of ongoing clinical trials; • fines, restitution or disgorgement of profits or revenue; • suspension or withdrawal of marketing approvals or other permits or voluntary suspension of marketing; • refusal to permit the import or export of our product products; • reputational harm; • refusal of government contracts or future orders under existing contracts, exclusion from participation in federal health care programs, and corporate integrity agreements; • product seizure or detention; or • injunctions or the imposition of civil or criminal penalties, including False Claims Act liability. **Non-60** **Non-** compliance with **EU European Union** requirements regarding safety monitoring or pharmacovigilance, and with requirements related to the development of drugs for the pediatric population, can also result in significant financial penalties. Similarly, failure to comply with the **EU European Union**'s requirements regarding the protection of personal information can also lead to significant penalties and sanctions. The occurrence of any event or penalty described above may inhibit our ability to commercialize our products and generate revenue, and could require us to expend significant time and resources in response and could generate negative publicity. In addition, the **policies of the FDA -s, the EMA** and other regulatory authorities' **policies** may change, and additional government regulations may be enacted that could impair our business. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may be subject to enforcement action, and we may not achieve or sustain profitability. Our employees, independent contractors, principal investigators, CROs, consultants, commercial collaborators, contract manufacturers, service providers and other vendors may engage in misconduct or other improper activities, including non-compliance with regulatory standards and requirements. We are exposed to the risk of misconduct by employees and independent contractors, such as principal investigators, CROs, consultants, commercial collaborators, contract manufacturers, service providers and other vendors. Such misconduct could include failures to comply with FDA, **the EMA**, or comparable foreign regulations, to provide accurate information to the FDA, **the EMA**, or comparable foreign authorities, to comply with manufacturing standards that we have established or that are established by regulation, to comply with federal and state contracting and healthcare fraud and abuse laws, to report drug pricing, financial information or data accurately or to disclose unauthorized activities to us. In particular, sales, marketing and other business arrangements in the healthcare industry are subject to extensive laws intended to prevent fraud, kickbacks, self-dealing and other abusive practices. These laws may restrict or prohibit a wide range of business activities, including, but not limited to, research, manufacturing, distribution, pricing, discounting, marketing, advertising and promotion, sales commissions, customer incentive programs and other business arrangements. Employee and independent contractor misconduct could also involve the improper use of individually identifiable information, including, without limitation, information obtained in the course of clinical trials, which could result in regulatory sanctions and serious harm to our reputation. In addition, federal procurement laws impose substantial penalties for misconduct in connection with government contracts and require certain contractors to maintain a code of business ethics and conduct and self-disclose credible evidence of False Claims Act violations. It is not always possible to identify and deter employee and independent contractor misconduct, and any precautions we take to detect and prevent improper activities may not be effective in controlling unknown or unmanaged risks or losses or in protecting us from governmental investigations or other actions or lawsuits stemming from a failure to be in compliance with such laws. If any such actions are instituted against us, those actions could have a significant impact on our business, including the imposition of warning letters, untitled letters, cyber letters, seizure or recall of products, injunctions, withdrawal of product approval or other permits, clinical holds and termination of clinical trials, FDA or foreign regulatory authorities refusal to approve pending applications, product detentions, FDA or **DEA**, **or comparable foreign regulatory authorities** consent decrees, restriction or suspension of manufacturing and distribution, debarment, refusal to allow product import or export, adverse publicity, refusal of government contracts or future orders under existing contracts, dear-health-care-provider letters or other warnings or corrective information, recalls, delays, significant civil, criminal and administrative penalties including False Claims Act liability, damages, monetary fines, disgorgement, restitution, possible exclusion from participation in Medicare, Medicaid and other federal healthcare programs, corporate integrity agreements, contractual damages, reputational harm, diminished profits and future earnings and curtailment or restructuring of our operations, among other consequences, any of which could adversely affect our ability to operate. **Our current and future relationships with healthcare professionals, principal investigators, consultants, customers and third-party payors in the United States and elsewhere may be subject, directly or indirectly, to applicable anti-kickback, fraud and abuse, false claims, physician payment transparency, and other healthcare laws and regulations, which could expose us to penalties.** Healthcare **61** Healthcare providers and third-party payors in the United States and elsewhere play a primary role in the recommendation and prescription of our products, as well as any product candidates for which we obtain marketing approval. Our and our commercial partners' current and future arrangements with healthcare professionals, principal investigators, consultants, customers and third-party payors may expose us to broadly applicable fraud and abuse and other healthcare laws, including, without limitation, the Anti-Kickback Statute and the False Claims Act, that may constrain the business or financial arrangements and relationships through which we and our commercial partners sell, market and distribute any product candidates for which we

obtain marketing approval. In addition, we may be subject to transparency laws with respect to drug pricing and transfers of value made to physicians and other healthcare professionals. The applicable federal, state and foreign healthcare laws that may affect our ability to operate include the following: ● the federal Anti-Kickback Statute, which prohibits, among other things, persons and entities from knowingly and willfully soliciting, offering, receiving or paying remuneration, directly or indirectly, in cash or in kind, to induce or reward, or in return for, either the referral of an individual for, or the purchase, lease, order or arranging for the purchase, lease or order of, any good, facility, item or service, for which payment may be made, in whole or in part, under federal and state healthcare programs such as Medicare and Medicaid. A person or entity does not need to have actual knowledge of this statute or specific intent to violate it in order to have committed a violation; ● federal civil and criminal false claims laws, including the False Claims Act, which impose criminal and civil penalties, including through civil whistleblower or qui tam actions, against individuals or entities for, among other things, knowingly presenting, or causing to be presented, to the federal government, including the Medicare and Medicaid programs, claims for payment that are false or fraudulent or making or using a false record or statement material to a false or fraudulent claim or to avoid, decrease or conceal an obligation to pay money to the federal government, including erroneous pricing information on which mandatory rebates, discounts and reimbursement amounts are based, or in the case of the False Claims Act, for violations of the federal Anti-Kickback Statute in connection with a claim for payment or for conduct constituting reckless disregard for the truth; ● the civil monetary penalties statute, which imposes penalties against any person or entity who, among other things, is determined to have presented or caused to be presented a claim to a federal health program that the person knows or should know is for an item or service that was not provided as claimed or is false or fraudulent; ● the Health Insurance Portability and Accountability Act, or HIPAA, which created additional federal criminal statutes that prohibit knowingly and willfully executing, or attempting to execute, a scheme to defraud any healthcare benefit program or obtain, by means of false or fraudulent pretenses, representations or promises, any of the money or property owned by, or under the custody or control of, any healthcare benefit program, regardless of whether the payor is public or private, knowingly and willfully embezzling or stealing from a health care benefit program, willfully obstructing a criminal investigation of a health care offense and knowingly and willfully falsifying, concealing or covering up by any trick or device a material fact or making any materially false statements in connection with the delivery of, or payment for, healthcare benefits, items or services relating to healthcare matters. Similar to the federal Anti-Kickback Statute, a person or entity does not need to have actual knowledge of this statute or specific intent to violate it in order to have committed a violation; ● the federal Physician Payments Sunshine Act and its implementing regulations, impose new annual reporting requirements for manufacturers of drugs, devices, biologicals and medical supplies for which payment is available under Medicare, Medicaid or the Children's Health Insurance Program, with certain exceptions, to annually report certain payments and transfers of value provided to physicians (defined to include doctors, dentists, optometrists, podiatrists and chiropractors), certain other healthcare professionals (physician assistants, nurse practitioners, clinical nurse specialists, certified nurse anesthetists, anesthesiologist assistants and certified nurse-midwives) and teaching hospitals, or to entities or individuals at the request of, or designated on behalf of, such providers and teaching hospitals, and to report annually certain ownership and investment interests held by physicians and their immediate family members; and ● analogous state and foreign laws and regulations, such as state anti-kickback and false claims laws, which may apply to sales or marketing arrangements and claims involving healthcare items or services reimbursed by non-governmental third-party payors, including private insurers; certain state laws which require drug manufacturers to comply with the industry's voluntary compliance guidelines and the relevant compliance guidance promulgated by the federal government and may require drug manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures; certain state laws that require manufacturers to report information on the pricing of certain drug products; and certain state and local laws require the registration or pharmaceutical sales representatives. These laws may affect our and our commercial partners' sales, marketing, and other promotional activities by imposing administrative and compliance burdens on us and our commercial partners. Efforts to ensure that our current and future business arrangements with third parties will comply with applicable healthcare laws and regulations may involve substantial costs. It is possible that governmental authorities will conclude that our business practices may not comply with current or future statutes, regulations or case law involving applicable fraud and abuse or other healthcare laws, or that our compliance systems are inadequate to detect and report such conduct or to report accurate pricing information to the government. If our operations are found to be in violation of any of these laws or any other governmental regulations that may apply to us, we may be subject to significant civil, criminal and administrative penalties, including, without limitation, damages, fines, imprisonment, exclusion from participation in government healthcare programs, such as Medicare and Medicaid, corporate integrity agreements or similar agreements to resolve allegations of non-compliance with these laws, and the curtailment or restructuring of our operations, which could significantly harm our business. If any of the physicians or other healthcare providers or entities with whom we currently, or expect to, do business, including future collaborators, is found not to be in compliance with applicable laws, they and we may be subject to significant penalties and potential exclusion from participation in healthcare programs as a result of their non-compliance. **Recently enacted and future legislation may increase the difficulty and cost for us to obtain marketing approval of our product candidates and increase the cost to commercialize our approved products, and any of our product candidates that may be approved in the future and affect the prices thereof.** In the United States and some foreign jurisdictions, there have been a number of legislative and regulatory changes and proposed changes regarding the healthcare system that could, among other things, prevent or delay marketing approval of our product candidates, restrict or regulate post-approval activities and affect the ability to profitably sell our approved products and our ability to profitably sell any of our product candidates for which we obtain marketing approval. Among policy makers and payors in the United States and elsewhere, there is significant interest in promoting changes in healthcare systems with the stated goals of containing healthcare costs, improving quality and / or expanding access. In the United States, the pharmaceutical industry has been a particular focus of these efforts and has been significantly affected by major legislative initiatives. For example, in March 2010, the ACA was signed into law and was intended to broaden access to health insurance, reduce or constrain the growth of healthcare spending, enhance remedies against fraud and abuse, add new transparency requirements for the healthcare and health insurance industries, impose new taxes and fees on the health industry and impose additional health policy reforms. Among the provisions of the ACA of importance to our potential product candidates are the following: ● an annual, nondeductible fee on any entity that manufactures or imports certain branded prescription drugs and biologic agents, apportioned among these entities according to their market share in certain government healthcare programs; ● an increase in the statutory minimum rebates a manufacturer must pay under the Medicaid Drug Rebate Program to 23.1 % and 13.0 % of the average manufacturer price for branded drugs and generic drugs, respectively; ● expansion of healthcare fraud and abuse laws, including the False Claims Act and the federal Anti-Kickback Statute, new government investigative powers and enhanced penalties for non-compliance; ● establishment of a new and distinct methodology by which rebates owed by manufacturers under the Medicaid Drug Rebate Program are calculated for drugs that are inhaled, infused, instilled, implanted or injected; ● a new Medicare Part D coverage gap discount program (**which was replaced in 2025**), in which manufacturers **must agree were required** to offer 70 % point-of-sale discounts off negotiated prices (generally as negotiated between the Medicare Part D plan and the pharmacy) of applicable brand drugs to eligible beneficiaries during their coverage gap period, as a condition for the manufacturer's outpatient drugs to be covered under Medicare Part D; ● extension of manufacturers' Medicaid rebate liability to covered drugs dispensed to individuals who are enrolled in Medicaid managed care organizations and extension of the inflation percentage applicable to existing branded drugs to new formulations for purposes of computing the inflation penalty component of Medicaid rebates; ● expansion of eligibility criteria for Medicaid programs by, among other things, allowing states to offer Medicaid coverage to additional individuals and by adding new mandatory eligibility categories for certain individuals with income at or below 133 % of the Federal Poverty Level, thereby potentially increasing manufacturers' Medicaid rebate liability; ● expansion of the entities eligible for discounts under the Public Health Service pharmaceutical pricing program; ● the new requirements under the federal Open Payments program and its implementing regulations; ● a new requirement to annually report drug samples that manufacturers and distributors provide to physicians; and ● a new Patient-Centered Outcomes Research Institute to oversee, identify priorities in, and conduct comparative clinical effectiveness research, along with funding for such research. **Since 2010** its enactment, there have been executive, judicial and congressional challenges to certain aspects of the ACA. On June 17, 2021, the U. S. Supreme Court dismissed the most recent judicial challenge to the ACA brought by several states without specifically ruling on the constitutionality of the ACA. Thus, the ACA will remain in effect in its current form. **Further, prior to the U.S. Supreme Court ruling, President Biden issued an executive order that initiated a special enrollment period from February 15, 2021 through August 15, 2021, for purposes of obtaining health insurance coverage through the ACA marketplace. The executive order also instructed certain governmental agencies to review and reconsider their existing policies and rules that limit access to healthcare, including among others, reexamining Medicaid demonstration projects and waiver programs that include work requirements, and policies that create unnecessary barriers to obtaining access to health insurance coverage through Medicaid or the ACA.** In addition, other legislative changes have been proposed and adopted since the ACA was enacted. In August 2011, the Budget Control Act of 2011, among other things, included aggregate reductions to Medicare payments to providers, which went into effect in April 2013, and, due to subsequent legislative amendments, will stay in effect through 2032, **with the exception of a temporary suspension from May 1, 2020 through March 31, 2022 due to the COVID-19 pandemic, unless additional Congressional action is taken.** In January 2013, the American Taxpayer Relief Act of 2012 was signed into law, which, among other things, further reduced Medicare payments to several providers, and increased the statute of limitations period for the government to recover overpayments to providers from three to five years. In addition, on March 11, 2021, the American Rescue Plan Act of 2021 was signed into law, which eliminated the statutory Medicaid drug rebate cap, beginning January 1, 2024. The rebate was previously capped at 100 % of a drug's average manufacturer price. Further, there has been increasing legislative and enforcement interest in the United States with respect to specialty drug pricing practices. Specifically, there have been several recent U. S. Congressional inquiries and proposed and enacted federal and state legislation designed to, among other things, bring more transparency to drug pricing, review the relationship between pricing and manufacturer patient programs, reduce the cost of drugs under Medicare, and reform government program reimbursement methodologies for drugs. On August 16, 2022, the Inflation Reduction Act of 2022, or IRA, was signed into law. Among other things, the IRA requires manufacturers of certain drugs to engage in price negotiations with Medicare (beginning in 2026), imposes rebates under Medicare Part B and Medicare Part D to penalize price increases that outpace inflation (first due in 2023), and replaces the Part D coverage gap discount program with a new **manufacturer** discounting program (**beginning which began** in 2025). The IRA permits the Secretary of the Department of Health and Human Services, or HHS, to implement many of these provisions through guidance, as opposed to regulation, for the initial years. **On August 29, CMS has published the negotiated prices for the initial ten drugs, which will first be effective in 2023-2026. HHS announced and has published** the list of the **first ten subsequent 15** drugs that will be subject to price negotiations **- negotiation**, although the drug price negotiation program is currently subject to legal challenges. For that and other reasons, it is currently unclear how the IRA will be effectuated. At the state level, legislatures are increasingly passing legislation and implementing regulations designed to control pharmaceutical and biological product pricing, including price or patient reimbursement constraints, discounts, restrictions on certain product access and marketing cost disclosure, **drug price increase reporting and other** transparency measures, and, in some cases, designed to encourage importation from other countries and bulk purchasing. **Some states have enacted legislation creating so-called prescription drug affordability boards, which ultimately may attempt to impose price limits on certain drugs in these states.** These new laws may result in additional reductions in Medicare and other healthcare funding, which could negatively impact customers for our product candidates, if approved, and, accordingly, our financial operations. In the EU, on December 13,

2021, Regulation No 2021 / 2282 on Health Technology Assessment (“ HTA ”) amending Directive 2011 / 24 / EU, was adopted. ~~The While the~~ Regulation entered into force in January 2022 **and has been applicable since**, it will only begin to apply from January 2025 onwards, with preparatory and implementation-related steps to take place in the interim. ~~Once applicable, it will have a phased implementation depending based on the concerned type of product, i. e. oncology and advanced therapy medicinal products as of 2025, orphan medicinal products as of 2028, and all other medicinal products by 2030.~~ The Regulation intends to boost cooperation among EU member states in assessing health technologies, including new medicinal products, and provide the basis for cooperation at the EU level for joint clinical assessments in these areas. It will permit EU member states to use common HTA tools, methodologies, and procedures across the EU, working together in four main areas, including joint clinical assessment of the innovative health technologies with the highest potential impact for patients, joint scientific consultations whereby developers can seek advice from HTA authorities, identification of emerging health technologies to identify promising technologies early, and continuing voluntary cooperation in other areas. Individual EU member states will continue to be responsible for assessing non-clinical (e. g., economic, social, ethical) aspects of health technology, and making decisions on pricing and reimbursement. We expect that the healthcare reform measures that have been adopted and may be adopted in the future, may, among other things, result in more rigorous coverage criteria and in additional downward pressure on the price that we receive for any approved product. Any reduction in reimbursement from Medicare or other government programs may result in a similar reduction in payments from private payors. The implementation of cost containment measures or other healthcare reforms may prevent us from being able to generate revenue, attain profitability, or commercialize our produg product candidates. Legislative and regulatory proposals and enacted statutes have been made to expand post- approval requirements and restrict sales and promotional activities for drugs. For instance, the Drug Supply Chain Security Act imposes obligations on manufacturers of pharmaceutical products, among others, related to product tracking and tracing. Among the requirements of this new legislation, manufacturers are required to provide specified information regarding the drug products they produce to individuals and entities to which product ownership is transferred, label drug products with a product identifier and keep specified records regarding the drug products. The transfer of information to subsequent product owners by manufacturers will eventually be required to be done electronically. Manufacturers are also required to verify that purchasers of products are appropriately licensed. Further, under this legislation, manufacturers have drug product investigation, quarantine, disposition and FDA and trading- partner notification responsibilities related to counterfeit, diverted, stolen and intentionally adulterated products, as well as products that are the subject of fraudulent transactions or which are otherwise unfit for distribution such that they would be reasonably likely to result in serious health consequences or death. In the EU, the EU pharmaceutical legislation is currently undergoing a complete review process, in the context of the Pharmaceutical Strategy for Europe initiative, launched by the European Commission in November 2020. The European Commission’s proposal for revision of several legislative instruments related to medicinal products (potentially reducing the duration of regulatory data protection, revising the eligibility for expedited pathways, etc.) was published on April 26, 2023. The proposed revisions remain to be agreed and adopted by the European Parliament and European Council and the proposals may therefore be substantially revised before adoption, which is not anticipated before early 2026. The revisions may, however, have a significant impact on the pharmaceutical industry and our business in the long term. ~~We~~ **64** We cannot be sure whether additional legislative changes will be enacted, or whether the FDA or foreign regulations, guidance or interpretations will be changed, or what the impact of such changes on the marketing approvals of our product candidates, if any, may be. In addition, increased scrutiny by the U. S. Congress of the FDA’s approval process may significantly delay or prevent marketing approval, as well as subject us to more stringent product labeling and post- marketing testing and other requirements. **If we fail to comply with our reporting and payment obligations under the Medicaid Drug Rebate Program or other governmental pricing programs in which we participate, we could be subject to additional reimbursement requirements, penalties, sanctions and fines, which could have a material adverse effect on our business, financial condition, results of operations and growth prospects. Medicaid is a joint federal and state program administered by the states for low income and disabled beneficiaries. We participate in and have certain price reporting obligations under the Medicaid Drug Rebate Program, or the MDRP, as a condition of having covered outpatient drugs payable under Medicaid and, if applicable, under Medicare Part B. The MDRP requires us to pay a rebate to state Medicaid programs every quarter for each unit of our covered outpatient drugs dispensed to Medicaid beneficiaries and paid for by a state Medicaid program. The rebate is based on pricing data that we must report on a monthly and quarterly basis to the Centers for Medicare & Medicaid Services, or CMS, the federal agency that administers the MDRP and other governmental healthcare programs. These data include the average manufacturer price (AMP) for each drug and, in the case of innovator products, the best price, which in general represents the lowest price available from the manufacturer to certain entities in the U. S. in any pricing structure, calculated to include all sales and associated rebates, discounts and other price concessions. The Medicaid rebate consists of two components, the basic rebate and the additional rebate, which is triggered if the AMP for a drug increases faster than inflation. If we become aware that our MDRP Governments– government outside price reporting submission for a prior quarter was incorrect or has changed as a result of recalculation of the pricing data, we must resubmit the corrected data for up to three years after those data originally were due. If we fail to provide information timely or are found to have knowingly submitted false information to the government, we may be subject to civil monetary penalties and other sanctions, including termination from the MDRP. In the event that CMS terminates our rebate agreement pursuant to which we participate in the MDRP, no federal payments would be available under Medicaid or Medicare Part B for our covered outpatient drugs. Our failure to comply with our MDRP price reporting and rebate payment obligations could negatively impact our financial results. The recently- enacted IRA imposes rebates under Medicare Part B and Medicare Part D that are triggered by price increases that outpace inflation (first due in 2023), as described under the risk factor “ Recently enacted and future legislation may increase the difficulty and cost for us to obtain marketing approval of our product candidates and increase the cost to commercialize our approved products, and any of our product candidates that may be approved in the future and affect the prices thereof, ” above. The Medicare Part D rebate will be calculated on the basis of the AMP figures we report pursuant to the MDRP. Federal law requires that any company that participates in the MDRP also participate in the Public Health Service’s 340B drug pricing program in order for federal funds to be available for the manufacturer’s drugs under Medicaid and, if applicable, Medicare Part B. We participate in the 340B program, which is administered by the Health Resources and Services Administration, or HRSA, and requires us to charge statutorily defined covered entities no more than the 340B “ ceiling price ” for our covered outpatient drugs [BP (A4) | TS5 | | RC6]. These 340B covered entities include a variety of community health clinics and other entities that receive health services grants from the Public Health Service, as well as hospitals that serve a disproportionate share of low - income patients. The ACA expanded the list of covered entities to include certain free - standing cancer hospitals, critical access hospitals, rural referral centers and sole community hospitals, but exempts “ orphan drugs, ” such as OLPRUVA, from the ceiling price requirements for these covered entities. The 340B ceiling price is calculated using a statutory formula based on the AMP and rebate amount for the covered outpatient drug as calculated under the MDRP, and in general, products subject to Medicaid price reporting and rebate liability are also subject to the 340B ceiling price calculation and discount requirement. We must report 340B ceiling prices to HRSA on a quarterly basis, and HRSA publishes those prices to 340B covered entities. In addition, HRSA has finalized regulations regarding the calculation of the 340B ceiling price and the imposition of civil monetary penalties on manufacturers that knowingly and intentionally overcharge covered entities for 340B - eligible drugs. HRSA has also finalized a revised regulation implementing an administrative dispute resolution process through which 340B covered entities may pursue claims against participating manufacturers for overcharges, and through which manufacturers may pursue claims against 340B covered entities for engaging in unlawful diversion or duplicate discounting of 340B drugs. Our failure to comply 340B program requirements could negatively impact our financial results. Any additional future changes to the definition of average manufacturer price and the Medicaid rebate amount under legislation or regulation could affect our 340B ceiling price calculations and also negatively impact our financial results. In order for OLPRUVA or any product candidates, if approved, to be paid for with federal funds under the Medicaid and Medicare Part B programs and purchased by certain federal agencies and grantees, we also participate in the U. S. Department of Veterans Affairs, or VA, Federal Supply Schedule, or FSS, pricing program. As part of this program, we are required to make our products available for procurement on an FSS contract under which we must comply with standard government terms and conditions and charge a price that is no higher than the statutory Federal Ceiling Price, or FCP, to four federal agencies (VA, U. S. Department of Defense, or DOD, Public Health Service, and U. S. Coast Guard). The FCP is based on the Non- Federal Average Manufacturer Price, or Non- FAMP, which we must calculate and report to the VA on a quarterly and annual basis. Pursuant to applicable law, knowing provision of false information in connection with a Non- FAMP filing can subject a manufacturer to significant civil monetary penalties for each item of false information. The FSS pricing and contracting obligations also contain extensive disclosure and certification requirements. We also participate in the Tricare Retail Pharmacy program, under which we are required to pay quarterly rebates on utilization of innovator products that are dispensed through the Tricare Retail Pharmacy network to Tricare beneficiaries. The rebates are calculated as the difference between the annual Non- FAMP and FCP. We are required to list our innovator products on a Tricare Agreement in order for the them United to be eligible for DOD formulary inclusion. If we overcharge the government in connection with our FSS contract or Tricare Agreement, whether due to a misstated FCP or otherwise, we are required to refund the difference to the government. Failure to make necessary disclosures and / or to identify contract overcharges could result in allegations against us under the False Claims Act and other laws and regulations. Unexpected refunds to the government, and responding to a government investigation or enforcement action, would be expensive and time- consuming, and could have a material adverse effect on our business, financial condition, results of operations and growth prospects. Individual States states tend continue to consider and have enacted legislation to limit the growth of healthcare costs, including the cost of prescription drugs and combination products. A number of states have either implemented or are considering implementation of drug price transparency legislation. Requirements of pharmaceutical manufacturers under such laws include advance notice of planned price increases, reporting price increase amounts and factors considered in taking such increases, wholesale acquisition cost information disclosure to prescribers, purchasers, and state agencies, and new product notice and reporting. Such legislation could limit the price or payment for certain drugs, and a number of states are authorized to impose strict civil monetary penalties or pursue other enforcement mechanisms against manufacturers who fail to comply with drug price controls transparency requirements, including the untimely, inaccurate, or incomplete reporting of drug pricing information. Pricing and rebate calculations vary among products and programs. The calculations are complex and are often subject to interpretation by us, governmental or regulatory agencies, and the courts. CMS, the Department of Health & Human Services Office of Inspector General, and other governmental agencies have pursued manufacturers that were alleged to have failed to report these data to the government in a timely or accurate manner. Governmental agencies may also make changes in program interpretations, requirements or conditions of participation, some of which may affect have implications for amounts previously estimated our– or revenue, if paid. We cannot assure you that any –in submissions we are required to make under the MDRP, the 340B program, the VA / FSS program, the Tricare Retail Pharmacy Program, and other governmental drug pricing programs will not be found to be incomplete or incorrect. In some countries, particularly the EU member states, the pricing of prescription pharmaceuticals is subject to governmental control. In these countries, pricing negotiations with governmental authorities can take considerable**

time after the receipt of marketing approval for a product. To obtain coverage and reimbursement or pricing approval in some member states, we may be required to conduct a clinical trial that compares the cost-effectiveness of our product candidate to other available therapies. If reimbursement of our produg products is unavailable or limited in scope or amount, or if pricing is set at unsatisfactory levels, our business could be harmed, possibly materially. ~~If we fail to comply with environmental, health and safety laws and regulations, we could become subject to fines or penalties or incur costs that could harm our business.~~ We are subject to numerous environmental, health and safety laws and regulations, including those governing laboratory procedures and the handling, use, storage, treatment and disposal of hazardous materials and wastes. Our operations involve the use of hazardous and flammable materials, including chemicals and biological materials. Our operations also produce hazardous waste products. We generally contract with third parties for the disposal of these materials and wastes. We cannot eliminate the risk of contamination or injury from these materials. In the event of contamination or injury resulting from our use of hazardous materials, we could be held liable for any resulting damages, and any liability could exceed our resources. We also could incur significant costs associated with civil or criminal fines and penalties for failure to comply with such laws and regulations. Although we maintain workers' compensation insurance to cover us for costs and expenses we may incur due to injuries to our employees resulting from the use of hazardous materials, this insurance may not provide adequate coverage against potential liabilities. We do not maintain insurance for environmental liability or toxic tort claims that may be asserted against us in connection with our storage or disposal of biological, hazardous or radioactive materials. In addition, we may incur substantial costs in order to comply with current or future environmental, health and safety laws and regulations. These current or future laws and regulations may impair our research, development or production efforts. Our failure to comply with these laws and regulations also may result in substantial fines, penalties or other sanctions. If our security measures are compromised now, or in the future, or the security, confidentiality, integrity or availability of, our information technology systems, software, services, communications or data is compromised, limited or fails, this could result in a material adverse impact, including without limitation, a material interruption to our operations, harm to our reputation, significant fines, penalties and liability, breach or a triggering of data protection laws, privacy policies and data protection obligations, loss of customers or sales, or material disruption of our clinical trials or other business activity. In the ordinary course of our business, we may collect, process, **transmit** and store proprietary, confidential and sensitive information, including personal information (including key-coded data and health information), intellectual property, trade secrets and proprietary business information (collectively, "Confidential Information") owned or controlled by ourselves or other parties. **It is critical that we do so in a secure manner to maintain the confidentiality and integrity of such Confidential Information.** There ~~65~~There can be no assurance that our cybersecurity risk management program and processes, including our policies, controls or procedures, will be fully implemented, complied with or effective in protecting our systems and information. Despite the implementation of security measures, our information technology systems and data, and those of our CROs and other third parties on which we rely, are vulnerable to system failure, interruption, compromise, attack or damage from several sources, such as data corruption; breakdown; malicious human acts; malware (such as ransomware); **misconfigurations, "bugs" or other vulnerabilities;** malicious code (such as computer viruses or worms); fraudulent activity; employee misconduct, theft or error; denial-of-service attacks; public health epidemics; cyber-attacks by sophisticated nation-state and nation-state supported actors; natural disasters; terrorism; war (such as the current situation with Ukraine and Russia); and telecommunication and electrical failures. **We have also outsourced elements of our information technology infrastructure, and as a result a number of third-party vendors may or could have access to our confidential information.** Our recovery systems (and those of third parties upon whom we rely) are similarly vulnerable. Any of these events could lead to the unauthorized access, disclosure and use of proprietary, confidential, or otherwise non-public information (such as personal information). The techniques used by criminal actors to attack computer systems are sophisticated, change frequently and may originate from less regulated and remote areas of the world. As a result, we may not be able to address these techniques proactively or implement adequate preventative measures. Attacks upon information technology systems are also increasing in their levels of persistence and intensity and are being conducted by sophisticated and organized groups and individuals with a wide range of motives and expertise. As a result of the continued hybrid working environment, we may also face increased cybersecurity risks due to our reliance on internet technology and the number of our employees who are working remotely, which may create additional opportunities for cybercriminals to exploit vulnerabilities. We may also experience security breaches that may remain undetected for an extended period. **Even if identified, we may be unable to adequately investigate or remediate incidents or breaches due to attackers increasingly using tools and techniques that are designed to circumvent controls, to avoid detection, and to remove or obfuscate forensic evidence. If we or our third-party vendors were to experience a significant cybersecurity breach of our or their information systems or data, the costs associated with the investigation, remediation and potential notification of the breach to counter-parties and data subjects could be material.** We may be required to expend significant resources, fundamentally change our business activities and practices, or modify our operations, including our clinical trial activities, or information technology in an effort to protect against security breaches and to mitigate, detect and remediate actual and potential vulnerabilities. Due to the nature of some of these threats, we may be unable to anticipate threats, and there is a risk that a threat may remain undetected for a period of time. The costs of maintaining or upgrading our cyber-security systems at the level commercially reasonable to keep up with our expanding operations and prevent against potential attacks are increasing, and despite our best efforts, our network security and data recovery measures and those of our vendors may still not be adequate to protect against such security breaches and disruptions, which could cause harm to our business, financial condition and results of operations. **In addition, our remediation efforts may not be successful. If we do not allocate and effectively manage the resources necessary to build and sustain the proper technology and cybersecurity infrastructure, we could suffer significant business disruption, including transaction errors, supply chain or manufacturing interruptions, processing inefficiencies, data loss or the loss of or damage to intellectual property or other proprietary information.** We and certain of our service providers are from time to time subject to cyberattacks and security incidents. While we do not believe that we have experienced any significant system failure, accident or security breach to date, if we, our service providers, partners, or other relevant third parties experience any such incident that results in any data loss, deletion or destruction, unauthorized access to, loss of, acquisition or disclosure of, exposure or disclosure of sensitive information, or compromise related to the security, confidentiality, integrity or availability of our (or their) information technology, software, services, communications or data, it may result in a material adverse impact, including without limitation, fines, damages, litigation, enforcement actions, loss of trade secrets, a material disruption of our drug development programs, or other harm to our business. For example, the loss of clinical trial data from completed or ongoing or planned clinical trials could result in delays in our regulatory approval efforts and significantly increase our costs to recover or reproduce the data. To the extent that any disruption or security breach was to result in a loss of or damage to our data or applications, or inappropriate disclosure of confidential or proprietary information, we could incur liability and the further development of our product candidates could be delayed. **If such an event were to occur and cause interruptions in our operations, it could result in a material disruption of our business.** Additionally, applicable data protection laws, privacy policies and data protection obligations (such as contractual obligations) may require us to notify relevant stakeholders of security breaches, including affected individuals, customers and regulators. Such disclosures are costly, and the disclosure or the failure to comply with such requirements, could lead to material adverse impacts, including without limitation, **legal claims or proceedings (such as class actions), regulatory investigations and enforcement actions, fines and penalties, negative publicity, a reputational impacts that cause us to lose existing confidence in our products or services, and / or operations significant incident response, system restoration or breach of contract claims remediation and future compliance costs.** There can be no assurance that the limitations of liability in our contracts would be enforceable or adequate or would otherwise protect us from liabilities or damages if we fail to comply with applicable data protection laws, privacy policies or data protection obligations related to information security or security breaches. Further, failures or significant downtime of our information technology or telecommunication systems or those used by our third-party service providers could cause significant interruptions in our operations and adversely impact the confidentiality, integrity and availability of sensitive or confidential information, including preventing us from conducting clinical trials, tests or research and development activities and preventing us from managing the administrative aspects of our business. We cannot be sure that our insurance coverage will be adequate or otherwise protect us from or adequately mitigate liabilities or damages with respect to claims, costs, expenses, litigation, fines, penalties, business loss, data loss, regulatory actions or materially adverse impacts arising out of our privacy and cybersecurity practices, processing or security breaches that we may experience, or that such coverage will continue to be available on acceptable terms at all. The successful assertion of one or more large claims against us that exceeds our available insurance coverage, or results in changes to our insurance policies (including premium increases or the imposition of a large deductible or co-insurance requirements), could have an adverse effect on our business. In addition, we cannot be sure that our existing coverage and coverage for errors and omissions will continue to be available on acceptable terms or that our insurers will not deny coverage as to any future claim. ~~Failure 66~~Failure or perceived failure to comply with existing or future laws, regulations, contracts, self-regulatory schemes, policies, standards and other obligations related to data privacy or security could lead to government enforcement actions (which could include civil or criminal fines or penalties), a disruption of our clinical trials or commercialization of our products, private litigation, other liabilities, and / or adverse publicity. Compliance or the failure to comply with such obligations could increase the costs of our products, could limit their use or adoption, and could otherwise negatively affect our operating results and business. Regulation of data (including personal data) is evolving, as federal, state, and foreign governments continue to adopt new, or modify existing, laws and regulations addressing data privacy and security, and the collection, processing, storage, transfer, and use of data. We and our collaborators may be subject to current, new, or modified federal, state, and foreign data protection laws and regulations. These new or proposed laws and regulations are subject to differing interpretations and may be inconsistent among jurisdictions, and guidance on implementation and compliance practices are often updated or otherwise revised, which adds to the complexity of processing personal data. Moreover, we are subject to the terms of our privacy and security policies, representations, certifications, standards, publications, contracts and other obligations to third parties related to data privacy, security and processing. These and other requirements could require us or our collaborators to incur additional costs to achieve compliance, limit our competitiveness, necessitate the acceptance of more onerous obligations in our contracts, restrict our ability to use, store, transfer, and process data, impact our or our collaborators' ability to process or use data in order to support the provision of our products, affect our or our partners' ability to offer our products or operate in certain locations, cause regulators to reject, limit, or disrupt our clinical trial activities, result in increased expenses, reduce overall demand for our products and services and make it more difficult to meet expectations of or commitments to customers or collaborators. **Any failure or perceived failure by us to comply with federal, state or foreign laws or regulations, our internal policies and procedures or our contracts governing our processing of personal information could result in negative publicity, government investigations and enforcement actions, claims by third parties and damage to our reputation, any of which could have a material adverse effect on our business, results of operation, and financial condition.** Furthermore, the Federal Trade Commission, or the FTC, also has authority to initiate enforcement actions against entities that mislead customers about HIPAA compliance, make deceptive statements about privacy and data sharing in privacy policies, fail to limit third-party use of personal health information, fail to implement policies to protect personal health information or engage in other unfair practices that harm customers or that may violate Section 5 of the FTC Act. Even when HIPAA does not apply, failing to take appropriate steps to keep consumers' personal information secure can constitute unfair acts or practices in or affecting commerce in violation of Section 5 (a) of the FTC Act. The FTC expects a company's data security measures to be reasonable and appropriate in light of the sensitivity and volume of consumer

information it holds, the size and complexity of its business, and the cost of available tools to improve security and reduce vulnerabilities. Additionally, federal and state consumer protection laws are increasingly being applied by FTC and states' attorneys general to regulate the collection, use, storage, and disclosure of personal or personally identifiable information, through websites or otherwise, and to regulate the presentation of website content. Certain states have also adopted **comparable laws and regulations that govern the privacy, processing and security protection of health-related and other personal information. Such laws and regulations will, some of which may be more stringent than HIPAA subject to interpretation by various courts and other governmental authorities, thus creating potentially complex compliance issues for us and our future customers and strategic partners.** For example, the California Consumer Privacy Act of 2018, as amended by the California Privacy Rights Act, collectively the CCPA, requires businesses that process the personal information of the California residents to, among other things, (i) provide certain disclosures to California residents regarding the business's collection, use, and disclosure of their personal information (ii) receive and respond to requests from California residents to access, delete, and correct their personal information or opt out of certain disclosures of their personal information; and (iii) enter into specific contractual provisions with service providers that process California resident personal information on the business's behalf. **Additional compliance investment and potential business process changes may also be required.** Similar laws have been passed in other states and are continuing to be proposed at the state and federal level, reflecting a trend toward more stringent privacy legislation in the United States. As we expand our operations, these and similar laws may increase our compliance costs and potential liability. **The enactment of such laws could have potentially conflicting requirements that would make compliance challenging. In the event that we are subject to or affected by HIPAA, the CCPA, or other domestic privacy and data protection laws, any liability from failure to comply with the requirements of these laws could adversely affect our financial condition.** **Foreign** data protection laws, such as the GDPR and member state data protection laws, may also apply to health-related and other personal data that we process, including personal data relating to clinical trial participants. European data protection laws impose strict obligations on the ability to process health-related and other personal data of data subjects in Europe, including standards relating to the privacy and security of personal data. For example, **in Europe, the European Union General Data Protection Regulation, or the GDPR,** went into effect in May 2018 and imposes strict requirements for processing the personal data of individuals within the **European Economic Area, or the EEA.** Companies that must comply with the GDPR face increased compliance obligations and risk, including more robust regulatory enforcement of data protection requirements and potential fines for noncompliance of up to € 20 million or 4 % of the annual global revenues of the noncompliant company, whichever is greater. **In addition to fines, a breach of the GDPR may result in regulatory investigations, reputational damage, orders to cease / change our data processing activities, enforcement notices, assessment notices (for a compulsory audit) and / or civil claims (including class actions).** Among other requirements, the GDPR regulates transfers of personal data subject to the GDPR to third countries that have not been found to provide adequate protection to such personal data, including the United States, and the efficacy and longevity of current transfer mechanisms between the EEA and the United States remains uncertain. **Case-law from the Court of Justice of the European Union, or CJEU, states that reliance on the standard contractual clauses—a standard form of contract approved by the European Commission as an adequate personal data transfer mechanism—alone may not necessarily be sufficient in all circumstances and that transfers must be assessed on a case-by-case basis.** On October 7, 2022, President Biden signed an Executive Order on "Enhancing Safeguards for United States Intelligence Activities" which introduced new redress mechanisms and binding safeguards to address the concerns raised by the CJEU in relation to data transfers from the EEA to the United States and which formed the basis of the new EU-US Data Privacy Framework, or DPF, as released on December 13, 2022. The European Commission adopted its Adequacy Decision in relation to the DPF on July 10, 2023, rendering the DPF effective as a GDPR transfer mechanism to U.S. entities self-certified under the DPF. The DPF also introduced a new redress mechanism for EU citizens which addresses a key concern in the previous CJEU judgments and may mean transfers under standard contractual clauses are less likely to be challenged in future. We currently rely on [the EU standard contractual clauses] and [the UK Addendum to the EU standard contractual clauses and the UK International Data Transfer Agreement and the DPF as relevant to transfer personal data outside the EEA and the UK, including to the United States, with respect to both intragroup and third-party transfers. We expect the existing legal complexity and uncertainty regarding international personal data transfers to continue. In particular, we expect the DPF Adequacy Decision to be challenged and international transfers to the United States and to other jurisdictions more generally to continue to be subject to enhanced scrutiny by regulators. As a result, we may have to make certain operational changes and we will have to implement revised standard contractual clauses and other relevant documentation for existing data transfers within required time frames. As supervisory authorities issue further guidance on personal data export mechanisms, including circumstances where the standard contractual clauses cannot be used, and / or start taking enforcement action, we could suffer additional costs, complaints and / or regulatory investigations or fines, and / or if we are otherwise unable to transfer personal data between and among countries and regions in which we operate, it could affect the manner in which we provide our services, the geographical location or segregation of our relevant systems and operations, and could adversely affect our financial results. Additionally, other countries have passed or are considering passing laws requiring local data residency and / or restricting the international transfer of data. Further, from January 1, 2021, companies have had to comply with the GDPR and also the UK data protection regime, which imposes separate but similar obligations to those under the GDPR in UK national law. The UK GDPR mirrors the fines under the GDPR, i.e., fines up to the greater of € 20 million (£ 17.5 million) or 4 % of global turnover. On October 13, 2023, the UK Extension to the DPF came into effect (as approved by the UK government), as a UK GDPR data transfer mechanism to U.S. entities self-certified under the UK Extension to the DPF. As we continue to expand into other foreign countries and jurisdictions, we may be subject to additional laws and regulations **regarding personal data protection and international personal data transfers** that may affect how we conduct business. Failure, or perceived failure, to comply with **federal, the GDPR, state, the UK GDPR, and foreign other countries'** data protection laws and regulations, privacy policies, contracts and other data protection obligations could result in government investigations and enforcement actions (which could include civil or criminal penalties, fines, or sanctions), private litigation, a diversion of management's attention, adverse publicity and other negative effects on our operating results and business. There can be no assurance that the limitations of liability in our contracts would be enforceable or adequate or would otherwise protect us from liabilities or damages if we fail to comply with applicable data protection laws, privacy policies or data protection obligations related to information security or security breaches. Moreover, clinical trial participants or subjects about whom we or our collaborators obtain information, as well as the providers who share this information with us, may contractually limit our ability to use and disclose the information. Claims that we have violated individuals' privacy rights or failed to comply with data protection laws, contracts, privacy notices or other obligations even if we are not found liable, could be expensive and time-consuming to defend and could result in adverse publicity that could harm our business. **Although we work to comply with applicable laws, regulations and standards, our contractual obligations and other legal obligations, these requirements are evolving and may be modified, interpreted and applied in an inconsistent manner from one jurisdiction to another, and may conflict with one another or other legal obligations with which we must comply. Any failure or perceived failure by us or our employees, representatives, contractors, consultants, collaborators, or other third parties to comply with such requirements or adequately address privacy and security concerns, even if unfounded, could result in additional cost and liability to us, damage our reputation, and adversely affect our business and results of operations.** Any of these matters could materially adversely affect our business, financial condition, or operational results. **Risks** We are subject to complex and changing laws, regulations, and executive orders, and compliance with these laws and regulations and executive orders, as well as changing interpretations and enforcement priorities **Related to Employee Matters** such laws, regulations, and **Managing Our Growth** Our future success depends on executive orders, which are onerous and expensive. Compliance with such laws, regulations, and executive orders can adversely affect our business by increasing our costs, limiting our ability to retain key personnel or offer a product candidate or product, and requiring changes to our business. New and changing laws, regulations, and executive orders can also create uncertainty about how such laws and to attract, retain regulations will be interpreted and applied. Regulatory changes and other actions that materially adversely affect our business may be announced with little or no advance notice we may not be able to effectively motivate mitigate qualified personnel all adverse impacts from such measures. We Differing interpretations of such legal obligations and changes in enforcement priorities can expose us to significant fines, government investigations, litigation and reputational harm. If we are found to have violated laws, regulations, or executive orders, it could materially adversely affect our business, reputation, results of operations and financial condition. **68** We are highly dependent on the management, research and development, clinical, financial and business development expertise of our senior leadership team, as well as the other members of our scientific and clinical teams. Although we have employment agreements with each of our executive officers, these agreements do not obligate them to continue working for our company and they may terminate their employment with us at any time. **Among other recent changes in our senior management team, our new Chief Executive Officer was appointed effective October 10, 2023.** Our future performance will depend, in part, **the on a successful transition transitions and period with our new Chief Executive Officer, Neil F. McFarlane, the successful integration of any other new senior level executives into their roles, and the continuity of leadership among the larger workforce.** If we do not successfully manage these executive transitions, it could be viewed negatively by our customers, employees, investors, and other third-party partners, and could have an adverse impact on our business and results of operations. Recruiting and retaining qualified scientific and clinical personnel and, if we progress the development of our product candidate pipeline toward scaling up for commercialization, manufacturing and sales and marketing personnel, will also be critical to our success. The loss of the services of our executive officers or other key employees could impede the achievement of our research, development and commercialization objectives and seriously harm our ability to successfully implement our business strategy. Furthermore, replacing executive officers and key employees may be difficult and may take an extended period of time because of the limited number of individuals in our industry with the breadth of skills and experience required to successfully develop, gain regulatory approval of and commercialize our produg product candidates. Competition to hire from this limited pool is intense, and we may be unable to hire, train, retain or motivate these key personnel on acceptable terms given the competition among numerous pharmaceutical and biotechnology companies for similar personnel. We also experience competition for the hiring of scientific and clinical personnel from universities and research institutions. In addition, we rely on consultants and advisors, including scientific and clinical advisors, to assist us in formulating our research and development and commercialization strategy. Our consultants and advisors may have commitments under consulting or advisory contracts with other entities that may limit their availability to us. If we are unable to continue to attract and retain high quality personnel, our ability to pursue our growth strategy will be limited. **Risks Related to Ownership of Our 69 Our Common Stock and Our Status as a Public Company** The trading price of the shares of our common stock is likely to be volatile, and purchasers of our common stock could incur substantial losses. Our stock price has been, and is likely to continue to be, volatile. Since shares of our common stock were sold in our initial public offering in April 2015 at a price of \$ 176.00 per share (adjusted to give effect to the 1-for-16 reverse stock split), our stock price has ranged from a low of \$ 1.94 to a high of \$ 418.40 through **April 11 March 12, 2024 2025.** In addition, the stock market in general and the market for pharmaceutical companies, in particular, have experienced extreme volatility that has often been unrelated to the operating performance of particular companies. As a result of this volatility, investors may not be able to sell their common stock at or above the price paid for the shares. The market price for our common stock may be influenced by many factors, including: • actual or anticipated variations in our operating results; • changes in financial estimates by us or by any securities analysts who might cover our stock; • conditions or trends in our industry, including without limitation changes in the structure of

healthcare payment systems; ● stock market price and volume fluctuations of comparable companies and, in particular, those that operate in the pharmaceutical industry; ● announcements by us or our competitors of significant acquisitions, strategic partnerships or divestitures; ● announcements of investigations or regulatory scrutiny of our operations or lawsuits filed against us; ● adverse regulatory announcements or determinations regarding our product candidates; ● capital commitments; ● investors' general perception of us and our business; ● global macroeconomic conditions, including inflation, tariffs, labor shortages, supply chain shortages, or other economic, political or legal changes, uncertainties or adverse developments; ● political unrest, terrorism and wars, such as the current situation with Ukraine and Russia or Israel and Hamas, which could delay or disrupt our business, and if such political unrest escalates or spills over to or otherwise impacts additional regions it could heighten many of the other risk factors included in this Item 1A; ● other events or factors, including those resulting from system failures and disruptions, earthquakes, hurricanes, other natural disasters, pandemics, or responses to these events; ● recruitment, retention, or departure of key personnel; and ● sales of our common stock, including sales by our directors and officers or specific stockholders. Many of the factors described above are not within our control and we cannot guarantee that future instances of these influencing factors will not have effects on the trading price of our common stock. In addition, in the past, stockholders have initiated class action lawsuits against pharmaceutical and biotechnology companies following periods of volatility in the market prices of these companies' stock. For instance, in December 2016, we received notice of a class action suit filed against us in the Iowa District Court in Johnson County by a stockholder alleging that we, certain of our senior executives and directors who signed the registration statement in connection with our initial public offering, and each of the investment banks that acted as underwriters for the offering negligently issued untrue statements of material facts and omitted to state material facts required to be stated in the registration statement and incorporated offering materials that we filed with the U. S. Securities and Exchange Commission, or the SEC, in support of the offering. In June 2018, the case was dismissed without prejudice to members of the putative class. Future litigation could cause us to incur substantial costs and divert management's attention and resources from our business. Further, biotechnology and pharmaceutical companies, in particular, have experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of these companies. Broad market and industry factors may negatively affect the market price of our common stock, regardless of our actual operating performance. ~~70We A portion of our outstanding warrants are entitled to certain anti-dilution protections which, if triggered, may cause dilution to your investment. The warrant held by OTA LLC, or the OTA Warrant, includes an exercise price protection provision, pursuant to which the exercise price of the OTA Warrant will be adjusted downward on a broad-based weighted-average basis if we issue or sell any shares of common stock, convertible securities, warrants or options at a sale or exercise price per share less than the greater of (i) \$38.34 per share, which represents the OTA Warrant's exercise price, or (ii) the closing sale price of our common stock on the last trading date immediately prior to such issuance or, in the case of a firm commitment underwritten offering, on the date of execution of the underwriting agreement between us and the underwriters for such offering. Additionally, if we effect an "at the market offering", as defined in Rule 415 of the Securities Act, of our common stock, the exercise price of the OTA Warrant will be adjusted downward pursuant to this anti-dilution adjustment only if such sales are made at a price less than \$38.34 per share, provided that this anti-dilution adjustment will not apply to certain specified sales. Future sales and issuances of equity and debt could result in additional dilution to our stockholders. We may need additional capital in the future to fund our planned future operations, including to complete potential clinical trials for our product candidates or for successful commercialization of our approved products. To raise capital, we may sell or issue common stock, convertible securities or other equity securities in one or more transactions at prices and in a manner we determine from time to time. The issuance of additional shares of our common stock or equity securities convertible into shares of our common stock may cause your ownership interest to be diluted, and the market price of our common stock may fall or be materially and adversely affected. Examples of such issuances of equity securities include the following: ● The holders of any of the warrants described elsewhere in this Annual Report on Form 10-K may elect to exercise such warrants and receive shares of common stock. ● In connection with the Merger and its related transactions, we issued shares of our common stock pursuant to the Loan and Note Purchase Agreements and the cancellation of the Acer warrants. See "Liquidity and Capital Resources." ● In July 2021, the Company entered into the Equity Distribution Agreement with JMP Securities LLC, or JMP, and RBC Capital Markets, LLC, or RBCCM, under which the Company may offer and sell, from time to time at its sole discretion, shares of its common stock having an aggregate offering price of up to \$75,000,000 through JMP and RBCCM as its sales agents. In June 2021, at the annual meeting of stockholders, the stockholders approved the Amended and Restated 2014 Equity Incentive Plan, which, among other things, added 4,900,000 shares to the equity plan pool, and the employee stock purchase plan, or the 2021 ESPP, which allows for eligible employees to purchase up to an aggregate of 1,500,000 million shares of stock through the plan. Pursuant to our equity incentive plan, we may grant equity awards and issue additional shares of our common stock to our employees, directors and consultants, and the number of shares of our common stock reserved for future issuance under this plan will be subject to automatic annual increases in accordance with the terms of the plans. In February 2024, our Board approved the Amended and Restated 2023 Employment Inducement Award Plan, (the "2023 Plan"), under which we may grant equity awards to certain new employees. The maximum number of shares of common stock to be issued under the 2023 Plan is 4,500,000. Additionally, in February 2024, our Board approved amendments to the Amended and Restated 2014 Equity Incentive Plan, (the "2014 Plan"), under which we may grant equity awards to certain new employees. The maximum number of shares of common stock to be issued under the 2014 Plan, if amended, will be 19,600,000. The amendments to the 2014 plan are subject to stockholder approval at our 2024 annual meeting of stockholders. Sales of a substantial number of shares of our common stock in the public market could cause the market price of our common stock to drop significantly, even if our business is doing well. Sales of a substantial number of shares of our common stock in the public market could occur at any time. If our stockholders sell, or the market perceives that our stockholders intend to sell, substantial amounts of our common stock in the public market, the market price of our common stock could decline significantly. -On December 20, 2021, we initiated a share repurchase program, or the Share Repurchase Program, pursuant to which we may repurchase up to \$50 million of shares of our common stock through December 31, 2023. On December 31, 2023, the Share Repurchase Program ended, and we had repurchased 1,575,692 shares of our common stock for approximately \$11.0 million. Anti-takeover provisions in our amended and restated certificate of incorporation and amended and restated bylaws, as well as provisions of Delaware law and the terms of some of our contracts, might discourage, delay or prevent a change in control of our company or changes in our board of directors or management and, therefore, depress the price of our common stock. Our amended and restated certificate of incorporation and amended and restated bylaws and Delaware law contain provisions that may discourage, delay or prevent a merger, acquisition or other change in control that stockholders may consider favorable, including transactions in which you might otherwise receive a premium for your shares of our common stock or transactions that our stockholders might otherwise deem to be in their best interests. These provisions may also prevent or frustrate attempts by our stockholders to replace or remove members of our board of directors or our management. Therefore, these provisions could adversely affect the price of our stock. Our corporate governance documents include provisions: ● establishing a classified board of directors with staggered three-year terms so that not all members of our board of directors are elected at one time; ● providing that directors may be removed by stockholders only for cause; ● preventing the ability of our stockholders to call and bring business before special meetings and to take action by written consent in lieu of a meeting; ● requiring advance notice of stockholder proposals for business to be conducted at meetings of our stockholders and for nominations of candidates for election to our board of directors; ● permitting the board of directors to issue up to 10,000,000 shares of preferred stock with any rights, preferences and privileges they may designate; ● limiting the liability of, and providing indemnification to, our directors and officers; ● providing that vacancies may be filled by remaining directors; ● preventing cumulative voting; and ● providing for a supermajority requirement to amend our amended and restated bylaws. As a Delaware corporation, we are also subject to provisions of Delaware law, including Section 203 of the General Corporation Law of the State of Delaware, which prohibits a Delaware corporation from engaging in a broad range of business combinations with any "interested" stockholder for a period of three years following the date on which the stockholder became an "interested" stockholder. In addition, the provisions of our termination agreement with Aquestive Therapeutics ("Aquestive") may delay or prevent a change in control of our company. For example, if we enter into a merger, an asset sale or any other change of control transaction, then Aquestive will be entitled to a royalty equal to 10% of the price being paid to us and our stockholders in such transaction which is attributable to the value of AZSTARYS or KP1077. Any provision of our amended and restated certificate of incorporation, amended and restated bylaws or Delaware law or any term of our contracts that has the effect of discouraging, delaying or preventing a change in control could limit the opportunity for our stockholders to receive a premium for their shares of our common stock and could also affect the price that some investors are willing to pay for our common stock. 77If 72If we engage in acquisitions to grow our business, we will incur a variety of costs and may potentially face numerous risks that could adversely affect our business and operations and cause our stock price to decline. If appropriate opportunities become available, we may seek to acquire businesses or assets to enhance our business. In connection with any acquisitions, we could issue additional equity securities, which would dilute our stockholders, incur substantial debt to fund the acquisitions or assume significant liabilities. Acquisitions involve many and diverse risks and uncertainties, including problems integrating the purchased operations or assets as well as unanticipated costs, liabilities, and economic, political, legal and regulatory challenges due to our inexperience operating in new regions or countries, and we may fail to successfully integrate acquired companies, such as Orphazyme-Acer, or retain key personnel from the acquired company. To date, we have limited experience with acquisitions and the integration of acquired operations and personnel. Acquisitions may divert our attention from our core business. Acquisitions may require us to record goodwill and non-amortizable intangible assets that will be subject to testing on a regular basis and potential period impairment charges, incur amortization expenses related to certain intangible assets, and incur write-offs and restructuring and other related expenses, any of which could harm our operating results and financial condition. New business strategies, especially those involving acquisitions, are inherently risky and may not be successful. Failure to successfully identify, complete, manage and integrate acquisitions could materially and adversely affect our business, financial condition and results of operations and could cause our stock price to decline. We could be negatively affected as a result of the actions of activist stockholders, which could be disruptive and costly and may conflict with or disrupt the strategic direction of our business. In January 2023, our board of directors received notice from a stockholder of his intention to nominate three nominees to stand for election to our board of directors at our 2023 annual meeting of stockholders and to submit a proposal at the annual meeting, which resulted in a contested election at the annual meeting at which such nominees were elected by our stockholders. Similar to the activist Activist stockholder activities initiated in January 2023, activist stockholders may from time to time attempt to effect changes in our strategic direction and seek changes regarding our corporate governance or structure. Our board of directors and management team strive to maintain constructive, ongoing communications with all stockholders who wish to speak with us, including activist stockholders, and welcome their views and opinions with the goal of working together constructively to enhance value for all stockholders. Any future proxy contest with respect to election of our directors, or other activist stockholder activities, could adversely affect our business because: (1) responding to a proxy contest and other actions by activist stockholders can be costly and time-consuming, disruptive to our operations and divert the attention of management and our employees; (2) actual or perceived uncertainties as to our future direction caused by activist activities may cause or appear to cause instability or lack of continuity, resulting in the loss of potential business opportunities, and potentially making it more difficult to attract and retain qualified personnel and business partners; and (3) if individuals are elected to our board of directors with a specific agenda, it may adversely affect our ability to effectively and timely implement our strategic plans. Activist stockholder activities may also cause significant fluctuations in our stock price based on temporary or speculative market perceptions, or other factors that do not necessarily reflect the fundamental underlying~~

value of our business. We may be subject to securities litigation, class action and derivative lawsuits, which could result in substantial costs and could divert management attention away from other business concerns. Securities class action lawsuits and derivative lawsuits are often brought against public companies that have entered into merger agreements. Even if the lawsuits are without merit, defending against these claims can result in substantial costs and divert management time and resources from other business concerns, which could seriously harm our business. An adverse judgment could result in monetary damages, which could have a negative impact on our liquidity and financial condition. For example, in October 2023, purported stockholders of Acer filed complaints against Acer and certain of its directors and officers in connection with the Merger. **On June 19, 2024, the Company entered into a confidential fee agreement (the "Fee Agreement") to settle these stockholder litigation matters related to the Merger. The parties to the Fee Agreement were entitled to an aggregate payment of approximately \$0.3 million, which was paid during the second quarter of 2024.** See Note H-K of our audited consolidated financial statements included elsewhere in this Annual Report on Form 10-K **for additional information.** ~~The Company does not believe the allegations in the complaints and demand letters are meritorious, and intends to defend against them vigorously.~~ Securities litigation against us could result in substantial costs and divert management's attention from other business concerns, which could seriously harm our business. Our amended and restated certificate of incorporation provides that the Court of Chancery of the State of Delaware is the exclusive forum for substantially all disputes between us and our stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us or our directors, officers or other employees. Our amended and restated certificate of incorporation provides that the Court of Chancery of the State of Delaware is the sole and exclusive forum for (i) any derivative action or proceeding brought on our behalf, (ii) any action asserting a breach of fiduciary duty owed by any of our directors, officers or other employees to us or our stockholders, (iii) any action asserting a claim against us arising pursuant to any provisions of the Delaware General Corporation Law, or DGCL, or our amended and restated certificate of incorporation or our amended and restated bylaws, or (iv) any action asserting a claim against us that is governed by the internal affairs doctrine. In addition, ~~on and effective July 15, 2020, we amended and restated~~ our amended and restated bylaws, or the Bylaws, **provide that pursuant to which:** (i) unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware (or, if and only if the Court of Chancery of the State of Delaware lacks subject matter jurisdiction, any state court located within the State of Delaware or, if and only if all such state courts lack subject matter jurisdiction, the federal district court for the District of Delaware) shall be the sole and exclusive forum for the following types of actions or proceedings under Delaware statutory or common law: (A) any derivative action or proceeding brought on behalf of us; (B) any action or proceeding asserting a claim of breach of a fiduciary duty owed by any of our current or former directors, officers or other employees, to us or our stockholders; (C) any action or proceeding asserting a claim against us or any of our current or former directors, officers or other employees, arising out of or pursuant to any provision of the DGCL or our amended and restated certificate of incorporation or our Bylaws (as each may be amended from time to time); (D) any action or proceeding to interpret, apply, enforce or determine ~~the~~ **the** validity of our amended and restated certificate of incorporation or our Bylaws (including any right, obligation, or remedy thereunder); (E) any action or proceeding as to which the DGCL confers jurisdiction to the Court of Chancery of the State of Delaware; and (F) any action or proceeding asserting a claim against us or any of our directors, officers or other employees, governed by the internal affairs doctrine, in all cases to the fullest extent permitted by law and subject to the court's having personal jurisdiction over the indispensable parties named as defendants, provided that this provision shall not apply to suits brought to enforce a duty or liability created by the Securities Act or the Exchange Act, or any other claim for which the federal courts have exclusive jurisdiction; (ii) unless we consent in writing to the selection of an alternative forum, to the fullest extent permitted by law, the federal district courts of the United States of America shall be the exclusive forum for the resolution of any complaint asserting a cause of action arising under the Securities Act; and (iii) any person or entity holding, owning or otherwise acquiring any interest in any security of us shall be deemed to have notice of and consented to the provisions of the Bylaws. ~~These~~ **73** ~~These~~ choice of forum provision may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers or other employees, which may discourage such lawsuits against us and our directors, officers or other employees. If a court were to find the choice of forum provision contained in our amended and restated certificate of incorporation or our Bylaws to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions. ~~We might not be able to utilize a significant portion of our net operating loss carryforwards, which could adversely affect our profitability.~~ As of December 31, 2023-2024, we had federal net operating loss carryforwards of approximately ~~\$350.381.3~~ **350.381.3** million, due to prior period losses, ~~\$145.118.3~~ **145.118.3** million of which, if not utilized, will begin to expire in 2027 and ~~\$204.262.78~~ **204.262.78** million of which have no expiration date. These net operating loss carryforwards could expire unused and be unavailable to offset future income tax liabilities, which could adversely affect our profitability. These federal net operating loss carryforwards are fully reserved under a valuation allowance in the consolidated balance sheet as of December 31, 2023-2024. On December 22, 2017, the U. S. government enacted H. R. 1, "An Act to provide for reconciliation pursuant to titles II and V of the concurrent resolution on the budget for fiscal year 2018" (informally titled the Tax Cuts and Jobs Act). Under the Tax Cuts and Jobs Act, U. S. federal net operating losses incurred in 2018 and in future years may be carried forward indefinitely, but the deductibility of such federal net operating losses is limited. It is uncertain if and to what extent various states will conform **or continue to conform** to the Tax Cuts and Jobs Act **or any subsequent or newly enacted federal tax legislation**. To the extent that we continue to generate taxable losses in the United States **or in the Kingdom of Denmark**, unused losses will carry forward to offset future taxable income (subject to any applicable limitations), if any. In addition, under Section 382 and Section 383 of the Code, if a corporation undergoes an "ownership change," which is generally defined as a greater than 50 % change, by value, in its equity ownership over a three-year period, the corporation's ability to use its pre-change net operating loss carryforwards and other pre-change tax attributes to offset its post-change income may be limited. We performed a Section 382 ownership change analysis in 2017 and determined that we experienced an ownership change in 2010, which resulted in a portion of our net operating loss carryforwards being subject to an annual limitation under Section 382 through 2012. No other ownership changes or limitations on our historical net operating loss carryforwards were noted through the year ended December 31, 2017. In addition, we may have already experienced an ownership change, or may experience ownership changes in the future, as a result of shifts in our stock ownership, including as a result of the Merger, as a result of the conversion of our outstanding convertible debt or otherwise as a result of changes in our stock ownership. If we determine that an ownership change has occurred and our ability to use our historical net operating loss carryforwards is materially limited, it would harm our future operating results by increasing our future tax obligations. As of December 31, 2023-2024, we maintain a full valuation allowance over our deferred tax assets for financial reporting purposes. ~~Changes in tax laws or regulations that are applied adversely to us may have a material adverse effect on our business, cash flow, financial condition or results of operations.~~ New income, sales, use or other tax laws, statutes, rules, regulations or ordinances could be enacted at any time, which could affect the tax treatment of our domestic earnings, if any. Any new taxes could adversely affect our business operations, and our business and financial performance. Further, existing tax laws, statutes, rules, regulations or ordinances could be interpreted, changed, modified or applied adversely to us. For example, legislation enacted in 2017, informally titled the Tax Cuts and Jobs Act, significantly revised the Internal Revenue Code of 1986, as amended. Future guidance from the Internal Revenue Service and other tax authorities with respect to the Tax Cuts and Jobs Act may affect us, and certain aspects of the Tax Cuts and Jobs Act could be repealed or modified in future legislation. In addition, the Inflation Reduction Act enacted in 2022 in the United States introduced, among other changes, a 15 % corporate minimum tax on certain United States corporations and a 1 % excise tax on certain stock redemptions by United States corporations. Furthermore, it is uncertain if and to what extent various states will conform **or continue to conform** to the Tax Cuts and Jobs Act or any **subsequent or** newly enacted federal tax legislation. Changes in corporate tax rates, the realization of net deferred tax assets relating to our operations, the taxation of foreign earnings, and the deductibility of expenses under the Tax Cuts and Jobs Act **or subsequent** or future reform legislation could have a material impact on the value of our deferred tax assets, could result in significant one-time charges, and could increase our future U. S. tax expense. ~~If we fail~~ **Additionally, the Trump administration has indicated the intent to maintain proper - propose significant changes and effective internal control, our ability to the U produce accurate financial statements on a timely basis could be impaired.** ~~We S. tax system. Many aspects of these potential proposals are unclear~~ subject to the reporting requirements of the Exchange Act, the Sarbanes-Oxley Act of 2002, or the Sarbanes-Oxley Act, and the rules and regulations of the stock market on which our ~~or undeveloped~~ common stock is listed. The Sarbanes-Oxley Act requires, among other things, that we maintain effective disclosure controls and procedures and internal control over financial reporting. For our fiscal year ended December 31, 2023, we performed system and process evaluation and testing of our internal control over financial reporting to allow management to report on the effectiveness of our internal control over financial reporting in our Annual Report on Form 10-K, as required by Section 404 of the Sarbanes-Oxley Act. We will be required to perform this evaluation and testing of our internal control over financial reporting to allow management to report on the effectiveness of our internal control over financial reporting on an **and** annual basis. This requires that we incur substantial additional professional fees and internal costs and that we expend significant management efforts on an annual basis. We have and will be required to test our internal control within a specified period, and, as a result, we may experience difficulty in meeting these reporting requirements. We may discover weaknesses in our system of internal financial and accounting controls and procedures that could result in a material misstatement of our financial statements. Our internal control over financial reporting will not prevent or detect all errors and all fraud. A control system, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the control system's objectives will be met. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that misstatements due to error or fraud will not occur or that all control issues and instances of fraud will be detected. For example, based on management's assessment using the framework set forth in the report entitled "Internal Control—Integrated Framework (2013)", in connection with the preparation of this Annual Report on Form 10-K, management identified a material weakness in internal controls related to having sufficient, documented policies and procedures in place to address significant and/or at-risk areas. As a result, in prior years, the Company did not appropriately account for warrants to purchase the Company's common stock. These warrants had not been appropriately accounted for as liabilities in prior periods, which led to understatements of derivative and warrant liability and additional paid-in capital and fluctuations in fair value adjustment related to derivative and warrant liability during the impacted periods. The material weakness described above resulted in the Company restating its consolidated financial statements for the year ended December 31, 2022, and the Prior Interim Financial Statements in this Annual Report on Form 10-K. The material weakness did not result in any identified material misstatements in the consolidated financial statements as of and for the year ended December 31, 2023. As a result of the material weakness noted above, management has concluded that our internal control over financial reporting was not effective as of December 31, 2023. If we are not able to comply with the requirements of Section 404 of the Sarbanes-Oxley Act, or if we are unable to maintain proper **predict which, if any, changes to the U. S. tax system will be enacted into law, and what effective effects internal control any enacted legislation might have on our tax liabilities.** In addition, ~~we the Trump administration has indicated that the United States may not be able to impose retaliatory measures with respect to jurisdictions produce timely and accurate financial statements. If that have were to happen - or are likely to, put in place tax rules that are extraterritorial or disproportionately affect American companies. The likelihood of the these market price of changes being enacted or implemented is unclear. We are currently unable to predict whether such changes will occur and, if so, the ultimate impact on our business~~ stock could decline and we could be subject to sanctions or investigations by the stock exchange on which our common stock is listed, the SEC or other regulatory authorities. **74** ~~An~~ General Risk Factors ~~An~~ active trading market for our common stock may not be sustained and you may not be able to resell your shares of our

common stock for a profit, if at all. An active trading market for our shares may not be sustained. If an active market for our common stock is not sustained, it may be difficult for you to sell our shares at an attractive price, or at all. ~~If equity research analysts do not publish research or reports, or publish unfavorable research or reports, about us, our business or our market, our stock price and trading volume could decline.~~ The trading market for our common stock is influenced by the research and reports that securities or industry analysts publish about us or our business, our market and our competitors. We do not have any control over these analysts. If one or more of the analysts who cover us downgrade our shares or change their opinion of our shares, our share price would likely decline. If one or more of these analysts cease coverage of our company or fail to regularly publish reports on us, we could lose visibility in the financial markets, which could cause our share price or trading volume to decline. ~~Because we do not anticipate paying any cash dividends on our common stock in the foreseeable future, capital appreciation, if any, will be your sole source of gains and you may never receive a return on your investment.~~ You should not rely on an investment in our common stock to provide dividend income. We have not declared or paid cash dividends on our common stock to date. We currently intend to retain our future earnings, if any, to fund the development and growth of our business. In addition, the terms of any future debt agreements may preclude us from paying dividends. As a result, capital appreciation, if any, of our common stock will be your sole source of gain for the foreseeable future. Investors seeking cash dividends should not purchase our common stock. ~~We incur increased costs and demands upon management as a result of being a public company.~~ As a public company listed in the United States, we incur significant additional legal, accounting and other costs. These additional costs could negatively affect our financial results. In addition, changing laws, regulations and standards relating to corporate governance and public disclosure, including regulations implemented by the SEC, may increase legal and financial compliance costs and make some activities more time consuming. These laws, regulations and standards are subject to varying interpretations and, as a result, their application in practice may evolve over time as new guidance is provided by regulatory and governing bodies. We intend to invest resources to comply with evolving laws, regulations and standards, and this investment may result in increased general and administrative expenses and a diversion of management's time and attention from revenue-generating activities to compliance activities. If, notwithstanding our efforts to comply with new laws, regulations and standards, we fail to comply, regulatory authorities may initiate legal proceedings against us. Failure to comply with these rules might also make it more difficult for us to obtain some types of insurance, including director and officer liability insurance, and we might be forced to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage. The impact of these events could also make it more difficult for us to attract and retain qualified persons to serve on our board of directors, on committees of our board of directors or as members of senior management. Global economic uncertainty and other global economic or political and regulatory developments could have a material adverse effect on our business, cash flows, financial condition and / or prospects. Growth in the global pharmaceutical market has become increasingly tied to (i) global economic growth as an economic downturn may reduce the amount of funding for the pharmaceutical sector as a whole or certain diseases targeted by us and (ii) political conditions, tension and uncertainty which could, for instance, impact the regulations applicable to us. Uncertain political and geopolitical conditions currently exist in various parts of the world, such as the ongoing conflict between Russia and Ukraine. As a result, the United States and other governments have announced certain sanctions against Russia. The conflict in Ukraine and any retaliatory measures taken by the United States and other governments could threaten global security and result in further regional conflict and otherwise have a lasting impact on regional and global economies, any or all of which could adversely affect our business. ~~In addition, the full effects of the United Kingdom's exit from the European Union in January 2020 are impossible to predict but may result in significant market volatility and dislocation, and adversely affect the United Kingdom, European and global economy.~~ Future legal or regulatory changes in jurisdictions where we currently operate, or in such jurisdictions in which we may choose to operate in the future, could materially and adversely affect our business, results of operations, cash flows, financial condition and / or prospects, including by imposing regulatory and operational restrictions and compliance obligations on our business, reducing our revenue or increasing our expenses. The above circumstances, individually or in the aggregate, could have a material adverse effect on our business, cash flows, financial condition and / or prospects. The increasing focus on environmental sustainability and social initiatives could increase our costs, harm our reputation and adversely impact our financial results. There has been increasing public focus by investors, patients, environmental activists, the media and governmental and ~~non-nongovernmental~~ **governmental** organizations on a variety of environmental, social and other sustainability matters. We may experience pressure to make commitments relating to sustainability matters that affect us, including the design and implementation of specific risk mitigation strategic initiatives relating to sustainability. If we are not effective in addressing environmental, social and other sustainability matters affecting our business, or setting and meeting relevant sustainability goals, our reputation and financial results may suffer. In addition, even if we are effective at addressing such concerns, we may experience increased costs as a result of executing upon our sustainability goals that may not be offset by any benefit to our reputation, which could have an adverse impact on our business and financial condition. In addition, this emphasis on environmental, social and other sustainability matters has resulted and may result in the adoption of new laws and regulations, including new reporting requirements. If we fail to comply with new laws, regulations or reporting requirements, our reputation and business could be adversely impacted. ~~Adverse developments affecting the financial services industry, including events or concerns involving liquidity, defaults, or non-performance by financial institutions, could adversely affect our business, financial condition or results of operations.~~ Financial **75Financial** instruments that potentially subject the Company to a concentration of credit risk consist primarily of cash, cash equivalents, and investments. The Company invests in money market funds, U. S. treasury securities, and U. S. government agency securities. The Company maintains bank deposits in federally insured financial institutions and these deposits may exceed federally insured limits. The Company is exposed to credit risk in the event of a default by the financial institutions holding its cash and cash equivalents to the extent recorded on the consolidated balance sheets. Should events, including limited liquidity, defaults, non-performance or other adverse developments occur with respect to the banks or other financial institutions that hold our funds, or that affect financial institutions or the financial services industry generally, or concerns or rumors about any events of these kinds or other similar risks, our liquidity may be adversely affected. For example, on March 10, 2023, the Federal Deposit Insurance Corporation (FDIC) announced that Silicon Valley Bank had been closed by the California Department of Financial Protection and Innovation. Although we did not have any funds in Silicon Valley Bank or other institutions that have been closed, we cannot guarantee that the banks or other financial institutions that hold our funds will not experience similar issues. **ITEM 1B. UNRESOLVED STAFF COMMENTS** **Not applicable.** **ITEM 1C. CYBERSECURITY** **Cybersecurity Risk Management and Strategy** We have developed and implemented a cybersecurity risk management program intended to protect the confidentiality, integrity, and availability of our critical systems and information. We design and assess our program based on the National Institute of Standards and Technology Cybersecurity Framework ("NIST CSF"). This does not imply that we meet any particular technical standards, specifications, or requirements, only that we use the NIST CSF as a guide to help us identify, assess, and manage cybersecurity risks relevant to our business. Our cybersecurity risk management program is integrated into our overall enterprise risk management program, and shares common methodologies, reporting channels and governance processes that apply across the enterprise risk management program to other legal, compliance, strategic, operational, and financial risk areas. Our cybersecurity risk management program is integrated into our overall risk management program, and shares common methodologies, reporting channels and governance processes that apply across the risk management program to other legal, compliance, strategic, operational, and financial risk areas. Key elements of our cybersecurity risk management program include but are not limited to the following: • risk assessments designed to help identify material risks from cybersecurity threats to our critical systems, and information; • a security team principally responsible for managing (1) our cybersecurity risk assessment processes, (2) our security controls, and (3) our response to cybersecurity incidents; • the use of external service providers, where appropriate, to assess, test or otherwise assist with aspects of our security processes; • cybersecurity awareness training of our employees, including incident response personnel, and senior management; • a cybersecurity incident response plan that includes procedures for responding to cybersecurity incidents; and • a third-party risk management process for key service providers, based on our assessment of their criticality to our operations and respective risk profile. For more information, see "If our security measures are compromised now, or in the future, or the security, confidentiality, integrity or availability of, our information technology systems, software, services, communications or data is compromised, limited or fails, this could result in a material adverse impact, including without limitation, a material interruption to our operations, harm to our reputation, significant fines, penalties and liability, breach or a triggering of data protection laws, privacy policies and data protection obligations, loss of customers or sales, or material disruption of our clinical trials or other business activity." in the "Risk Factors" section above. **Cybersecurity Governance** Our Board considers cybersecurity risk as part of its risk oversight function and has delegated to the Audit Committee ("Committee") oversight of cybersecurity risks, including oversight of management's implementation of our cybersecurity risk management program. The Committee receives periodic reports from management on our cybersecurity risks. In addition, management updates the Committee, where it deems appropriate, regarding any cybersecurity incidents it considers to be significant or potentially significant. Our management team takes steps to stay informed about and monitor efforts to prevent, detect, mitigate, and remediate cybersecurity risks and incidents through various means, which may include briefings from internal security personnel; threat intelligence and other information obtained from governmental, public or private sources, including external consultants engaged by us; and alerts and reports produced by security tools deployed in the information technology environment. **ITEM 2. PROPERTIES** As of December 31, 2024, we have leased approximately 17,000 square feet of headquarters office space in Celebration, Florida, comprised of two contiguous office suites, under non-cancelable lease agreements that expire in August 2025 and February 2026, respectively. One such office suite, which is approximately 6,300 square feet and has an expiration date of February 2026, is subleased to a third party. We have the right to extend the term of the lease for two successive five-year terms upon expiration. In addition, we occupy leased office space in Newton, Massachusetts and Copenhagen, Denmark. We believe that our facilities are adequate for our current needs. **ITEM 3. LEGAL PROCEEDINGS** From time to time, we may be involved in routine legal proceedings, as well as demands, claims and threatened litigation, which arise in the normal course of our business. Other than as disclosed in Note K of our audited consolidated financial statements included elsewhere in this Annual Report on Form 10-K, we believe there is no litigation pending that would reasonably be expected to, individually or in the aggregate, have a material adverse effect on our results of operations or financial condition. **ITEM 4. MINE SAFETY DISCLOSURES INFORMATION ABOUT OUR EXECUTIVE OFFICERS AND DIRECTORS** The following table sets forth information regarding our executive officers and directors as of the date of this Annual Report on Form 10-K. **Name** **Age** **Position** **Executive Officers** **Neil F. McFarlane** **President, Chief Executive Officer, and Director** **R. LaDuane Clifton, MBA, CPA** **Chief Financial Officer and Treasurer** **Joshua Schafer** **Chief Commercial Officer and Executive Vice President of Business Development** **Adrian Quartel, M. D., FFPM** **Chief Medical Officer** **Rahsaan W. Thompson** **Chief Legal Officer, Secretary and Compliance Officer** **Non-Employee Directors** **Thomas D. Anderson** **Director** **John B. Bode** **Director** **Douglas W. Calder** **Director** **Wendy Dixon, Ph. D.** **Director** **Tamara A. Favorito** **Director** **Alvin Shih, M. D.** **Director** **Corey Watton** **Director** **77** **Neil F. McFarlane** has served as our president and Chief Executive Officer, and as a director of our Company, since October 2023. Mr. McFarlane served as the chief executive officer and a member of the board of directors of Adamas Pharmaceuticals, Inc. from September 2019 until November 2021, when Adamas was acquired by Supernus Pharmaceuticals, Inc. From August 2016 to May 2019, Mr. McFarlane served as the chief operating officer of Retrophin, Inc. (now Traveer Therapeutics, Inc.), a public

biopharmaceutical company. From 2011 to 2016, he held positions of increasing responsibility with UCB, Inc., Genzyme Corporation (now Sanofi) and Sangstat Medical Corporation (acquired by Genzyme). Mr. McFarlane currently serves as a member of the board of directors of HCRx Holdings, a private company that invests in biopharmaceutical product royalties, and previously he served as a member of the board of directors of Collegium Pharmaceutical Inc., a public biopharmaceutical company. Mr. McFarlane proudly served as an officer and enlisted soldier in the United States Army Reserves. He received his BS and MS in Nursing from the University of Florida. Our Board believes that Mr. McFarlane's over 20 years of global biopharmaceutical and life sciences experience provide him with the qualifications and skills to serve as a director of our Company. R. LaDuane Clifton, MBA, CPA, has served as our Chief Financial Officer since June 2015 and as our Treasurer since February 2016; he also served as our Secretary from February 2016 to June 2024. Mr. Clifton is responsible for the Company's financial and operating activities. Previously, he served as our Vice President of Finance and Corporate Controller from April 2015 to June 2015. From August 2009 to February 2015, Mr. Clifton served in a variety of positions, including chief financial officer, secretary and treasurer, with The LGL Group, Inc., a public holding engaged in services, merchant investment and manufacturing business activities. From August 2008 to August 2009, Mr. Clifton served as the chief financial officer of a21, Inc., a public holding company with businesses in stock photography and the online retail and manufacturer of framed art, and as its corporate controller from March 2007 to August 2008. From August 2004 to March 2007, Mr. Clifton served as an auditor with KPMG. From August 1991 to August 2004, he served in a variety of finance, medical cost analysis and managed care provider contracting roles with Aetna, Inc., a publicly-held provider of healthcare benefits. Mr. Clifton is a certified public accountant in the state of Florida and received his BBA in Accounting and MBA from the University of North Florida, as well as a Graduate Certificate in Corporate Finance from Harvard University. Joshua Schafer has served as our Chief Commercial Officer and Executive Vice President, Business Development, since January 2023. Mr. Schafer has over 25 years of pharmaceutical commercial, new product development and M & A experience. From December 2020 to November 2022, he served as senior vice president and general manager of the Autoimmune and Rare Disease business at Mallinckrodt Pharmaceuticals. Prior to that, he served as Mallinckrodt's chief strategy and business officer from September 2019 to December 2020 and senior vice president of business development and general manager from January 2018 to September 2019. Prior to Mallinckrodt, Mr. Schafer served as vice president and oncology therapeutic area head, global marketing and strategy at Astellas Pharmaceuticals, where he was responsible for building the company's global oncology franchise, and also held senior roles at Takeda Pharmaceuticals, Accenture (formerly Anderson Consulting), G. D. Searle & Co. (later acquired by Pfizer) and Cognia Corporation. Mr. Schafer currently serves as a member of the board of Pharnext SA and Shuttles Pharmaceuticals. He received his BA in Biology and German at the University of Notre Dame, and both an MS in Biotechnology and an MBA from Northwestern University. 78Adrian Quartel, M. D., FFFPM, has served as our Chief Medical Officer since January 2024, and previously served as the chief medical officer of Acer Therapeutics from February 2022 until it was acquired by Zevra at the end of 2023. At Acer, Dr. Quartel played a key role in guiding clinical development, clinical operations, medical affairs and regulatory compliance. Prior to that, he was the chief medical officer at Adamas Pharmaceuticals, a company focused on drug development for neurological diseases, from September 2020 until February 2022. From June 2017 until September 2020, Dr. Quartel served as the group vice president of global medical affairs at BioMarin Pharmaceuticals Inc., where he spearheaded the launch of six treatments for rare diseases or genetic disorders. Before his tenure at BioMarin, Dr. Quartel oversaw clinical development and held senior medical leadership positions at Chiltern, a specialist contract research organization, from September 2006 to July 2007, at Astellas Pharma, Inc., a global life sciences company, from January 2004 until September 2006, and at ICON Clinical Research, a healthcare intelligence and clinical research organization, from August 2001 to January 2004. In addition, Dr. Quartel worked as a clinical research fellow at UCLA Cedar Sinai and as a resident in cardiothoracic surgery at Erasmus University Medical Center. He holds an M. D. from Erasmus University Medical School, Rotterdam, and has a postgraduate specialization in pharmaceutical medicine from the Faculty of Pharmaceutical Medicine in London. Dr. Quartel is board certified by the General Medical Council (GMC) in pharmaceutical medicine in the United Kingdom. Rahsaan W. Thompson has served as our Chief Legal Officer, Secretary and Compliance Officer since June 2024. Mr. Thompson has more than 25 years of experience as a business leader and attorney in the biotech industry. He previously served as the chief legal officer at Lyell Immunopharma, a publicly-traded and clinical-stage biotech corporation. Prior to his role at Lyell, he was the executive vice president, general counsel, corporate secretary and chief compliance officer at Gritstone bio, a publicly-traded, clinical-stage biotech company. Before that, he served as general counsel at Opiant Pharmaceuticals and Actelion Pharmaceuticals US. Earlier in his career, Mr. Thompson worked in general and corporate counsel roles at Quarles & Brady, Abraxis Bioscience and McKesson Corporation, as well as being Assistant District Attorney in the Philadelphia District Attorney's Office. Mr. Thompson currently serves on the board of trustees for the Oakland Museum of California and previously served on the board of the American Kidney Fund. He received his JD from Hofstra University School of Law and his B. Sc. from Southern Methodist University. He has bar admissions in the States of Illinois and Pennsylvania. Thomas D. Anderson has served as a director of our Company since August 2023 and as chair of the compensation committee since February 2024. Mr. Anderson is a 35-year veteran of the biopharma industry, playing a leading role in high-growth organizations for much of his career. Mr. Anderson served as chief executive officer and director of SwanBio Therapeutics, a clinical-stage gene therapy company, from September 2019 until his semi-retirement in October 2023; subsequently, he resigned his board directorship in March 2024. Prior to that, he served as the chief commercial strategy officer of Sage Therapeutics, Inc., a biopharmaceutical company, from 2014 to 2018. From 2004 to 2014, Mr. Anderson was a senior executive with Shire Pharmaceuticals Group in a number of operational and strategic roles in both rare diseases and specialty pharmaceuticals. Earlier in his career, Mr. Anderson was with Johnson & Johnson companies, Janssen and McNeil Pharmaceutical, in a number of leadership, sales, marketing and business information roles. Mr. Anderson also served as a director of private companies, ExpressCells Inc., from 2019 to 2023, and CEO Trust, from 2018 to 2021. Mr. Anderson received his MBA from the University of Notre Dame's Mendoza College of Business Administration. He received his BS in civil engineering from the P. C. Rossin College of Engineering at Lehigh University. Our Board believes that Mr. Anderson's extensive experience in the biopharma industry, including as senior executive and director of multiple biopharmaceutical companies, qualifies him to serve on the Board as a director of our Company. John B. Bode has served as a director of our Company since April 2023 and as chair of the nominating and corporate governance committee since May 2023. Since February 2015, Mr. Bode has been the owner and managing director of Aerie Investments, LLC, a management consulting and investment company focused on assisting legacy media companies and digital media start-ups with business development and strategic initiatives. Mr. Bode currently serves as the chief financial officer and chief transformation officer of Postmedia Network Canada Corp., a publishing company whose shares are traded on the Toronto Stock Exchange. Since September 2022, Mr. Bode has served as the interim chief executive officer of FISION Corporation, a provider of cloud-based digital asset management, sales enablement and agile marketing technologies; and, he has served as a member of its board of directors since March 2018. Mr. Bode has served on the board of directors of SPAR Group, Inc., a leading global provider of merchandising, marketing and distribution services that is listed on the Nasdaq, since October 2023, and of The McClatchy Company, a leading privately-held publisher of newspapers, since September 2020. Mr. Bode's past corporate experience includes many years serving as a key executive and / or financial officer for leading public companies. He was the chief financial officer of the Tribune Publishing Company from October 2013 to January 2015. He served as the chief financial officer of Source Interlink Companies, one of the largest enthusiast media companies in the United States and a leading distributor of periodicals, from January 2011 to September 2013, after serving in other accounting and finance roles with Source Interlink since 2002. He was previously employed as a certified public accountant for BDO Seidman. Mr. Bode received a BS in Accounting from Notre Dame University. Our Board believes that Mr. Bode's experience as an executive and manager of public and private companies, as well as his experience leading commercial and marketing operations for such companies, offers the Board valuable perspective and insight and provides him with the qualifications and skills to serve as a director of our Company. 79Douglas W. Calder has served as a director of our Company since April 2023. Since August 2016, he has served as president and a director of Yveclix, Inc. (including its subsidiaries and affiliates), a private company engineering immune-privileged, T cell and natural killer ("NK") cell-based cancer therapeutics. Mr. Calder has also served as a member of the board of directors of Renovaro, a public biotechnology company (Nasdaq: RENB), since October 2024, of NextGenNK, Sweden's NK cell competence center, since June 2019, and of BioFlorida, a private company supporting Florida's life sciences industry, since September 2018. He also has been a member of the Society for Natural Immunity since July 2018. Mr. Calder has more than 30 years of life science executive experience, having served in various senior executive roles for Florida-based biotechnology companies and research institutes, including Viragen, Accentia Biopharmaceuticals, Biovest International and the Vaccine & Gene Therapy Institute of Florida, as well as having formerly served as a registered financial portfolio manager with a focus on life science equities with the New York Stock Exchange member firms, Gruntal & Co. and Dean Witter Reynolds. Mr. Calder received a BA from Florida State University. Our Board believes that Mr. Calder's experience in biotechnology and life science industries, including as an executive and as director, provide him with the qualifications and skills to serve as a director of our Company. Wendy Dixon, Ph. D. has served as a director of our Company since April 2023. Dr. Dixon has more than 40 years of biopharmaceutical industry experience in drug development, with leadership roles in regulatory affairs and commercial capabilities. Dr. Dixon was chief marketing officer and president of global marketing at Bristol Myers Squibb from December 2001 to May 2009. From 1996 to 2001, she served as a senior vice president of marketing at Merck. Earlier in her career, she held executive management positions at West Pharmaceuticals, Osteotech and Centocor, as well as marketing, regulatory affairs, project management and biochemist roles at SmithKline and French (now GlaxoSmithKline). Since leaving Bristol Myers Squibb, Dr. Dixon has served on the boards of directors of numerous biopharmaceutical companies, including Arvinas, Inc. from June 2020 to May 2024, Black Diamond Therapeutics, Inc. from April 2022 to April 2024, and Iovance Biotherapeutics, Inc. from June 2022 to June 2023. Previously, Dr. Dixon served on the boards of directors of Alkermes plc from January 2011 to May 2022, bluebird bio, Inc. from May 2013 to June 2021, Incyte from May 2010 to May 2022, Sesen Bio, Inc. (formerly Eleven Biotherapeutics, Inc.) from October 2014 to February 2020, and Voyager Therapeutics, Inc. from January 2017 to January 2021. She also served on the boards of Ardea Biosciences from 2011 until 2012 when Ardea was acquired by AstraZeneca plc, and Furix Pharmaceuticals from 2010 until 2014 when Furix was acquired by Actavis plc. Dr. Dixon holds a Ph. D. in biochemistry and an M. Sc. and B. Sc. in Natural Science from the University of Cambridge. Our Board believes that Dr. Dixon's extensive experience in corporate management, including as a director of multiple public companies, as well as her academic and professional expertise, provides her with the qualifications and skills to serve as a director of our Company. Tamara A. Favorito Tamara A. Favorito has served as a director and chair of the audit committee of our Company since August 2021 and as our Board chair since May 2023. Ms. Favorito has more than 30 years of life sciences industry experience, including 20 years as a chief financial officer. Her extensive experience includes leading multiple private and public financings and M & A transactions as well as leading public companies' finance, investor relations, human resources, administration and managed care functions. She currently serves as a board member and audit committee chair of Arteleo

Biosciences, Inc., a publicly-traded clinical development stage company, since March 2021. Ms. Favorito served on the board of directors of Kintara Therapeutics, Inc. from 2021 until its merger with TuHURA Biosciences, Inc. in October 2024, and on the board of directors of Beacon Discovery, Inc. from 2018 until its acquisition by Eurofins Scientific in March 2021. Ms. Favorito was interim chief financial officer of Immunic, Inc., a publicly-traded clinical-stage drug development company in 2019. She served as chief financial officer of Signal Genetics, Inc. (now Viridian Therapeutics, Inc.), a publicly-traded molecular diagnostics company, from 2014 to 2017, HemaQuest Pharmaceuticals, Inc., a venture-backed clinical-stage drug development company, from 2010 to 2014, and Faville, Inc. (now MMR Global, Inc.), a publicly-traded clinical-stage drug development company, from 2001 to 2009. Earlier in her career, she spent eight years in public accounting with Deloitte & Touche LLP and PricewaterhouseCoopers LLP. Ms. Favorito is a certified public accountant (inactive). She received an MBA, emphasis in Finance, from Georgia State University, and a BBA, emphasis in Accounting, from Valdosta State University. Our Board believes that Ms. Favorito's extensive experience in corporate management, finance and life science as chief financial officer of multiple public companies provides her with the qualifications and skills to serve as a director of our Company. Alvin Shih, M. D. has served as a director of our Company since January 2024. Dr. Shih has broad experience in drug development, spanning multiple therapeutic areas and with a focus on rare diseases, including as the former chief operating officer and a founding member of Pfizer Inc.'s rare disease research unit. Since February 2021, he has served as president and chief executive officer of Catamaran Bio, Inc., a private biotechnology company developing off-the-shelf natural killer (NK) cell therapies to treat cancer. From July 2019 to December 2020, he served as the chief executive officer of Disarm Therapeutics, a biotechnology company that developed therapeutics for both rare and prevalent neurodegenerative diseases, which was acquired by Eli Lilly in October 2020. From November 2016 to February 2019, Dr. Shih was chief executive officer of Enzyvant Therapeutics, where he led the company's cell/tissue-based therapy development for treating a rare immunological disease. He was also the executive vice president and head of research at Retrophin, Inc., where he worked on therapies for multiple disease indications. Dr. Shih previously worked in management consulting at McKinsey & Company and L. E. K. Consulting, LLC. Dr. Shih also serves on the board of directors of Oaktree Acquisition Corp. III Life Sciences, a blank check company focused on the healthcare sector, and the private companies, Catamaran Bio, Inc., Imbria Pharmaceuticals, Inc. and Tenza bio. Dr. Shih received his medical degree from the University of Alabama School of Medicine and completed his residency training at Massachusetts General Hospital. Dr. Shih received his MBA from the Kellogg School of Management at Northwestern University and his BA from Vanderbilt University. Our Board believes that Dr. Shih's significant leadership experience in the biotechnology industry and his experience in rare disease qualifies him to serve as a director of our Company. Corey Watton has served as a director of our Company since April 2023. Mr. Watton has served as president and chief executive officer of Fusion Medical Staffing, LLC, a private company among the fifteen largest medical staffing companies in the US, since September 2023. Prior to his CEO role, Mr. Watton served as chief financial officer of Fusion from August 2019 until September 2023, overseeing finance, project management, operations, facilities and legal operations. From April 2009 through July 2019, he served as the chief financial officer of Home Instead Senior Health Care, a global leader in in-home health care, where he oversaw finance, subsidiary companies and the financial arm of an international subsidiary. He previously was an equity member of Lutz & Company, a regional accounting firm, from 1996 to 2009. Mr. Watton is a certified public accountant and received a BS in Finance and Accounting from University of Nebraska-Lincoln. Our Board believes that Mr. Watton's senior leadership roles in the medical services industry combined with his expertise in accounting make him well qualified to serve as a director of our Company.

80PART II ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS, AND ISSUER PURCHASES OF EQUITY SECURITIES Common Stock Listing Our common stock trades on The Nasdaq Global Select Market under the ticker symbol "ZVRA". Holders of our Common Stock As of December 31, 2024, there were approximately 80 holders of record of our common stock. The actual number of stockholders is greater than this number of record holders, and includes stockholders who are beneficial owners, but whose shares are held in street name by brokers and other nominees. This number of holders of record also does not include stockholders whose shares may be held in trust by other entities. Dividend Policy We have never declared or paid any cash dividends on our common stock. We anticipate that we will retain all of our future earnings, if any, for use in the operation and expansion of our business and do not anticipate paying cash dividends in the foreseeable future. Securities Authorized for Issuance under Equity Compensation Plans The information regarding securities authorized for issuance under equity compensation plans is included in Part III of this report. Recent Sales of Unregistered Securities None. Purchases of Equity Securities By the Issuer and Affiliated Purchasers ITEM 6. [Reserved]

7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS You should read the following discussion and analysis of our financial condition and results of operations together with our financial statements and related notes thereto included elsewhere in this Annual Report on Form 10-K. Some of the information contained in this discussion and analysis or set forth elsewhere in this Annual Report on Form 10-K, including information with respect to our plans and strategy for our business and related financing, includes forward-looking statements that involve risks and uncertainties. As a result of many factors, including those factors set forth in the "Risk Factors" section of this Annual Report on Form 10-K, our actual results could differ materially from the results described in or implied by the forward-looking statements contained in the following discussion and analysis. We are a commercial-stage company focused on addressing unmet needs for the treatment of rare diseases. Our mission is to bring life-changing therapeutics to people living with rare diseases. With unique, data-driven development and commercialization strategies, we are overcoming complex drug development challenges to make new therapies available to the rare disease community. We have a diverse portfolio of products and product candidates, which includes a clinical stage pipeline and commercial stage assets. Our team has specialized expertise and a track record of success in advancing promising therapies that face complex clinical and regulatory challenges with an approach that balances science and data with patient need. Following the U. S. approval of AZSTARIS® (further described below) in March 2021, we undertook a strategic process to evaluate how to leverage and potentially augment the Company's existing capabilities while also considering where to invest in our pipeline to generate long-term shareholder value. With a track record of drug development success leading to approvals for products which had either difficult pathways to approval or where approvals were won following a complete response letter ("CRL") from the U. S. Food and Drug Administration ("FDA"), we determined to focus our expertise on rare disease indications, as well as seeking value-creating opportunities by building and directly commercializing product candidates in lieu of an out-licensing model. We are executing on this balanced approach by building a culture that is patient-focused and driven by our commitment to developing and making available therapies which address the myriad unmet needs within the rare disease community. In May 2022, we purchased all of the assets and operations of Orphazyme A/S ("Orphazyme") related to arimoclomol, settled all of Orphazyme's actual outstanding liabilities to its creditors with a cash payment of \$12.8 million, and agreed to assume an estimated reserve clawback liability of \$5.2 million related to revenue generated from Orphazyme's Expanded Access Program in France (the "EAP"). On November 17, 2023, we completed the acquisition of Acer Therapeutics, Inc. ("Acer"). Pursuant to the Merger Agreement, Acer continues as a wholly-owned subsidiary of Zevra (the "Merger"). The Merger included the acquisition of OLPRUVA® (sodium phenylbutyrate) for oral suspension, which was approved by the FDA on December 27, 2022, for the treatment of certain urea cycle disorders ("UCDs"). Acer also had a pipeline of investigational product candidates, including celioprolol for the treatment of Vascular Ehlers-Danlos syndrome ("VEDS") in patients with a confirmed type III collagen (COL3A1) mutation. At the effective time of the Merger (the "Effective Time"), each share of common stock of Acer, par value \$0.0001 per share, issued and outstanding immediately prior to the Effective Time (excluding cancelled shares and any shares held by holders who have exercised their appraisal rights) were converted into the right to receive (i) 0.1210 fully paid and non-assessable shares of common stock of Zevra, par value \$0.0001 per share, and (ii) one non-transferable contingent value right ("CVR") issued by Zevra, which represents the right to receive one or more contingent payments up to an additional \$76.0 million upon the achievement, if any, of certain commercial and regulatory milestones for Acer's OLPRUVA and celioprolol products within specified time periods. Certain additional cash payments are also possible pursuant to the CVRs with respect to milestones involving Acer's early-stage program ACER-2820 (emetine). On September 20, 2024, the FDA approved the New Drug Application ("NDA") for MIPLYFFA™ (arimoclomol), an orally-delivered treatment for Niemann-Pick disease type C ("NPC"), which is an ultra-rare and progressive neurodegenerative disease. MIPLYFFA, the first FDA-approved treatment for NPC, is indicated for use in combination with miglustat for the treatment of neurological manifestations of NPC in adult and pediatric patients two years of age and older. In addition, we received a transferable rare pediatric disease PRV in conjunction with the approval. On February 26, 2025, we and Zevra Denmark A/S entered into an asset purchase agreement (the "PRV Transfer Agreement"), pursuant to which we agreed to sell the PRV to the buyer. Pursuant to the PRV Transfer Agreement, the buyer agreed to pay us \$150.0 million, payable in cash, upon the closing of the sale. The PRV Transfer Agreement contains customary representations, warranties, covenants, and indemnification provisions subject to certain limitations. The transaction remains subject to customary closing conditions, including the expiration or termination of the applicable waiting period under the Hart-Scott-Rodino Antitrust Improvements Act of 1976. MIPLYFFA has also been granted orphan medical product designation for the treatment of NPC by the European Commission. In November 2024, MIPLYFFA became commercially available. Now focused on late-stage clinical development and commercial opportunities, we discontinued our in-house drug discovery activities and closed our laboratory facilities in Iowa and Virginia at the end of the third quarter of 2025. We anticipate that any future early research and development activities will be outsourced. To accomplish our mission, we are seeking to further expand our pipeline through both internal development and through our business development activities to collaborate, partner, and potentially acquire additional assets. We intend to target assets that will allow us to leverage the expertise and infrastructure that we have built to help mitigate risk and enhance our probability of success. In addition, we may consider external opportunities within neurology and neurodegenerative diseases, psychiatric disorders, and other rare diseases, along with adjacent or related therapeutic categories. If we are successful, expanding our pipeline could be accretive to our value proposition and has the potential to create incremental long-term value for stockholders. 82We have historically had minimal positive net cash flows from operations. Our cash flows used in operations for the years ended December 31, 2024, and 2023, were \$69.7 million and \$33.5 million, respectively. We expect to continue to incur significant expenses and minimal positive net cash flows from operations or negative net cash flows from operations for the near future, and those expenses and losses may fluctuate significantly from quarter-to-quarter and year-to-year. We anticipate that our expenses will fluctuate substantially as we: • continue building and maintaining our ongoing commercial capabilities to support the launch of our approved product OLPRUVA® and MIPLYFFA in the U. S. • continue our ongoing preclinical studies, clinical trials and our product development activities for our pipeline of product candidates; • seek regulatory approvals for any product candidates that successfully complete clinical trials; • continue research and preclinical development and initiate clinical trials of our product candidates; • seek to discover and develop additional product candidates either internally or in partnership with other pharmaceutical companies; • adapt our regulatory compliance efforts to incorporate requirements applicable to marketed products; • maintain, expand and protect our intellectual property portfolio; • incur additional legal, accounting and other expenses in operating as a public

company; and • add operational systems and personnel, if needed, to support any future commercialization efforts. See Part I, Item 1." Business — AZSTARYS " of this Annual Report on Form 10-K for information regarding the AZSTARYS License Agreement. Components of our Results of Operations Our commercial revenue is, and will be, primarily derived from sales of our approved products or any of our product candidates for which we obtain regulatory approval, and sales of arimoclomol under the EAP. We expect that our other sources of revenues will be through payments arising from our license agreements with Corium, and through any other future arrangements related to one of our product candidates. To date, we have generated revenue from sales of our approved products, MIPLYFFA and OLPRUVA, to our specialty pharmacy, royalty, milestone and other reimbursement payments under the AZSTARYS License Agreement, sale of arimoclomol under the EAP, reimbursement of out-of-pocket third-party costs, and the performance of consulting services. We cannot guarantee that we will be able to successfully commercialize either MIPLYFFA or OLPRUVA, or that Corium will be able to successfully commercialize AZSTARYS or our product candidates covered under the AZSTARYS License Agreement, in addition, we cannot guarantee that we will continue to generate revenues from the sales of arimoclomol under the EAP. We also do not know when, if ever, any other product candidate will be commercially available. Cost of Product Revenue The components of our cost of product revenue are royalties and expenses directly attributable to revenue. To date, we have generated revenue from product sales of MIPLYFFA and OLPRUVA to our specialty pharmacy, sales of arimoclomol under the EAP, royalties, milestones and other reimbursements under the AZSTARYS License Agreement, reimbursement of out-of-pocket third-party costs, and the performance of consulting services. In connection with the AZSTARYS License Agreement, we paid Aquestive a royalty equal to 10 % of the upfront license payment and all regulatory milestone and royalty payments. In addition, we paid a \$ 6 million regulatory milestone payment earned by XOMA upon the approval of MIPLYFFA on September 20, 2024. Under the XOMA License Agreement, XOMA is also entitled to a mid-single digit royalty on net sales of MIPLYFFA, as well as certain net sales and regulatory milestone payments. We also owe an additional royalty in the low-single digit to KU / UCLB on net sales of MIPLYFFA and a 10 % royalty on net sales of OLPRUVA under the Relief Termination Agreement. Other components of cost of product revenue include \$ 6.2 million of non-cash intangible asset amortization related to the MIPLYFFA and OLPRUVA capitalized assets and \$ 5.7 million in inventory obsolescence reserve expense related to OLPRUVA inventory during the year.

Operating Expenses We classify our operating expenses into two categories: research and development expenses and selling general and administrative expenses. Salaries and personnel-related costs, including benefits, bonuses and stock-based compensation expense, comprise a significant component of each of these expense categories. We allocate expenses associated with our facilities, information technology costs and depreciation and amortization between research and development expenses and general and administrative expenses based on employee headcount and the nature of work performed by each employee. 83Research and Development Expense Research and development expense consists of expenses incurred while performing research and development activities to discover and develop potential product candidates. This includes conducting preclinical studies and clinical trials, manufacturing development efforts and activities related to regulatory filings for product candidates. We recognize research and development expenses as they are incurred. Our research and development expense primarily consists of: • salaries and personnel-related costs, including benefits and any stock-based compensation, for our scientific personnel performing research and development activities; • costs related to executing preclinical studies and clinical trials; • fees paid to consultants and other third parties who support our product candidate development; • other costs in seeking regulatory approval of our products; and • allocated facility-related costs and overhead. We typically use our employee, consultant and infrastructure resources across our development programs. We track outsourced development costs by product candidate or development program, but we do not allocate personnel costs, other internal costs or external consultant costs to specific product candidates or development programs. The following table summarizes our research and development costs for the years ended December 31, 2024 and 2023 (in thousands):

Year Ended December 31, 2024	Year Ended December 31, 2023
Outsourced development costs directly identified to programs: MIPLYFFA \$ 5,784	\$ 5,579
OLPRUVA 1,776	KPI077 10,486
APADAZ (1)- 2,446	Celiprolol 2,133
Other costs- Total outsourced development costs directly identified to programs 20,675	22,642
Research and development costs not directly identified to programs: Personnel costs including cash compensation, benefits and stock-based compensation 19,781	11,970
Facilities costs Other costs 1,588	4,419
Total research and development costs not directly allocated to programs 21,420	17,164
Total research and development expenses \$ 42,095	\$ 39,806

(1) On May 31, 2023, Zevra and KVK- Tech, Inc. (" KVK") terminated the Collaboration and License Agreement that the parties entered into on October 25, 2018. In conjunction with the termination of the Collaboration and License Agreement, we agreed to pay a settlement to KVK of \$ 0.9 million, which is included in research and development in the consolidated statement of operations for the year ended December 31, 2023, and was paid in October 2023. We anticipate that our research and development expenses will fluctuate in accordance with our strategic plan as we continue our efforts to advance the development of our product candidates. The successful development of our product candidates is highly uncertain. At this time, we cannot be certain regarding the nature, timing or costs required to complete the remaining development of any product candidates. This is due to the numerous risks and uncertainties associated with the development of our products and product candidates. Selling, General and Administrative Expense We anticipate that selling expenses will vary from quarter to quarter in accordance with our strategic plan as we continue our efforts to commercialize MIPLYFFA and OLPRUVA. The successful commercialization of AZSTARYS, MIPLYFFA, OLPRUVA, or any of our other product candidates that may be approved is highly uncertain. At this time, we cannot be certain regarding the nature, timing or costs required to commercialize MIPLYFFA, OLPRUVA, or any of our product candidates that may be approved in the future, due to the numerous risks and uncertainties associated with commercialization activities. General and administrative expenses primarily consist of salaries and personnel-related costs, including employee benefits and any stock-based compensation, for employees performing functions other than research and development. This includes personnel in executive, finance, human resources and administrative support functions. Other general and administrative expenses include facility-related costs not otherwise allocated to research and development expense, professional fees for auditing, tax and legal services, expenses associated with obtaining and maintaining patents, consulting costs and costs of our information systems. We expect that our general and administrative expenses will fluctuate as we continue to operate as a public reporting company and continue to develop our product candidates. We believe that these fluctuations will likely include costs related to the hiring of additional personnel and fees for outside consultants, lawyers and accountants. We also expect to continue to incur costs to comply with corporate governance, internal control, investor relations, disclosure and similar requirements applicable to public reporting companies. 84Other (Expense) Income Other (expense) income consists primarily of non-cash costs associated with fair value adjustments to our derivative and warrant liability and amortization of debt issuance costs and debt discount to interest expense. Other (expense) income also includes interest expense incurred on our outstanding borrowings as well as interest and other income consisting primarily of interest earned on investments. These items are unrelated to our core business and thus are recognized as other (expense) income in our consolidated statements of operations. The results of operations and changes in stockholders' equity for Acer were included in the Company's consolidated financial statements beginning November 18, 2023. Acer had total operating revenue of \$ 42,000 and a net loss of \$ 6.8 million for the period from November 18, 2023, through December 31, 2023. Comparison of the Years Ended December 31, 2024, and 2023 (in thousands):

Year Ended December 31, 2024	Year Ended December 31, 2023
Period- to 2024 2023 Period Change Revenue, net \$ 23,612	\$ 27,461
Cost of product revenue (excluding \$ 6,235 and \$ 772 in intangible asset amortization for the years ended December 31, 2024, and 2023, respectively, shown separately below) 7,417	2,173
Intangible asset amortization 6,235	5,463
Operating expenses: Research and development 42,095	39,806
Selling, general and administrative 54,868	34,314
Total operating expenses 96,963	74,120
Loss from operations (87,003)	(49,604)
Other (expense) income: Interest expense (7,351)	(1,501)
Fair value adjustment related to warrant and CVR liability 2,057	(98)
2,155 Fair value adjustment related to investments (18)	(631)
Interest and other income, net 2,175	4,541
Total other (expense) income (3,137)	3,555
Loss before income taxes (90,140)	(46,049)
Income tax expense (15,371)	(15,371)
Net loss \$ (105,511)	\$ (46,049)
Net Loss Net loss for the year ended December 31, 2024, was \$ 105.5 million compared to net loss of \$ 46.0 million for the year ended December 31, 2023. The change was attributable to an increase in loss from operations of \$ 37.4 million, a change in fair value adjustment related to investments of \$ 0.6 million, an increase in interest expense of \$ 5.9 million, a decrease in net interest income and other income of \$ 2.4 million, and an increase in income tax expense of \$ 15.4 million, partially offset by an increase in the change in fair value adjustment related to derivative and warrant liability and CVR liability of \$ 2.2 million. Revenue for the year ended December 31, 2024, was \$ 23.6 million, a decrease of approximately \$ 3.8 million compared to revenue of \$ 27.5 million for the year ended December 31, 2023. The decrease was primarily attributable to a decrease in sales under the AZSTARYS License Agreement of \$ 14.2 million and a decrease in consulting revenue of \$ 0.2 million, partially offset by an increase of \$ 10.1 million in MIPLYFFA product sales, an increase in sales under the EAP of approximately \$ 0.4 million, and an increase of \$ 0.1 million in OLPRUVA product sales. Cost of Product revenue Cost of product revenue for the year ended December 31, 2024, was \$ 7.4 million, an increase of \$ 5.2 million compared to cost of product revenue of \$ 2.2 million for the year ended December 31, 2023, primarily due to recognition of \$ 5.7 million of inventory obsolescence related to OLPRUVA, an increase of \$ 0.8 million in cost of MIPLYFFA product sales and royalties, and an increase of \$ 0.2 million related to OLPRUVA product sales and royalties, partially offset by a decrease in royalty payments related to the AZSTARYS License Agreement of approximately \$ 1.5 million. Intangible asset amortization for the year ended December 31, 2024, was \$ 6.2 million an increase of approximately \$ 5.5 million compared to intangible asset amortization of \$ 0.8 million for the year ended December 31, 2023. The increase was due to an increase of \$ 5.5 million in amortization expense related to definite-lived intangible assets. 85Research and development expenses increased by \$ 2.3 million, from \$ 39.8 million for the year ended December 31, 2023, to \$ 42.1 million for the year ended December 31, 2024. This increase was attributable to increases in personnel-related costs and share-based compensation expenses of \$ 6.3 million and \$ 0.9 million, respectively, partially offset by decreases in third-party research and development costs of \$ 3.6 million and other research and development costs of \$ 1.3 million. General and administrative expenses increased by \$ 20.6 million, from \$ 34.3 million for the year-ended December 31, 2023, to \$ 54.9 million for the year ended December 31, 2024. This increase was attributable to increases in marketing costs of \$ 10.1 million, share-based compensation expenses of \$ 7.2 million, personnel-related costs of \$ 1.6 million, and other expenses of \$ 2.2 million, primarily made up of expenses related to facilities, insurance, and travel. These increases were partially offset by a decrease in professional fees of \$ 0.5 million. Acer transaction costs were \$ 2.2 million and are included in general and administrative expenses for the year-ended December 31, 2023. Other (expense) income changed from \$ 3.6 million of income for the year ended December 31, 2023, to \$ 3.1 million of expense for the year ended December 31, 2024. This period-to-period change in other (expense) income was primarily attributable to an increase in interest expense of \$ 5.9 million, a decrease in the change in fair value related to investments of \$ 0.6 million, and a decrease in net interest and other income of \$ 2.4 million, partially offset by a decrease in the fair value adjustment related to derivative and warrant liability and CVR liability of \$ 2.2 million. Income Tax Expense Income tax expense for the year ended December 31, 2024, was \$ 15.4 million as a result of a periodic evaluation of our tax positions. There was no income tax expense for the year ended December 31, 2023. Sources of Liquidity Through December 31, 2024, we have funded	

our research and development and operating activities primarily through the issuance of debt and equity and from revenue received from the EAP, AZSTARYS License Agreement, OLPRUVA product sales, MIPLYFFA product sales and consulting arrangements. As of December 31, 2024, we had cash, cash equivalents and investments of \$ 75.5 million. To date, we have generated revenue from product sales of OLPRUVA and MIPLYFFA, product reimbursements from the EAP, proceeds from the AZSTARYS License Agreement, reimbursement of out-of-pocket third-party costs and the performance of consulting services. On February 26, 2025, we entered into the PRV Transfer Agreement, pursuant to which we agreed to sell the PRV to the buyer, subject to customary closing conditions. Pursuant to the PRV Transfer Agreement, the buyer agreed to pay the Company \$ 150.0 million, payable in cash, upon the closing of the sale. We have had recurring negative net operating cash flows throughout our operating history, and we cannot guarantee or predict when we may begin to consistently generate positive net cash flows from operations, or if at all. We expect that our sources of revenue will be from product sales of OLPRUVA and MIPLYFFA, product reimbursements from the EAP, proceeds from our license agreement with Commave, and any other future arrangements related to one of our product candidates. Adequate additional financing may not be available to us on acceptable terms, or at all. To the extent that we raise additional capital through the sale of equity or debt, the terms of these securities may restrict our ability to operate. If we raise additional funds through collaborations, strategic alliances or marketing, distribution or licensing arrangements with third parties, we may be required to relinquish valuable rights. If we are unable to raise capital when needed or on attractive terms, we could be forced to delay, reduce or altogether cease our research and development programs or future commercialization efforts.

86Registration Statements on Form S-3 In connection with the Merger, we and Nantahala Capital Management, LLC ("Nantahala") concurrently entered into a registration rights agreement, pursuant to which we agreed to file a resale registration statement with respect to the resale of our common stock issuable to Nantahala. On February 5, 2024, we filed a registration statement on Form S-3 (File No. 333-276856) registering an aggregate of 2,269,721 shares of our common stock. On April 5, 2024, we filed an amendment to such registration statement, which was declared effective on April 8, 2024. On June 4, 2024, we filed a registration statement on Form S-3 (File No. 333-279941) (the "June 2024 Registration Statement") under which we sell securities, including as may be issuable upon conversion, redemption, repurchase, exchange or exercise of securities, in one or more offerings up to a total aggregate offering price of \$ 350.0 million, \$ 75.0 million of which was allocated to the sale of the shares of common stock issuable under the 2024 ATM Agreement. The registration statement was declared effective on June 13, 2024. August 2024 Offering On August 8, 2024, we entered into an underwriting agreement (the "Underwriting Agreement") with Cantor Fitzgerald & Co. and William Blair & Company, L.L.C., as representatives of the several underwriters named therein (collectively, the "Underwriters"), in connection with the offering, issuance and sale by us of 9,230,770 shares of our common stock at a public offering price of \$ 6.50 per share, pursuant to the June 2024 Registration Statement and a related prospectus supplement dated August 8, 2024 filed with the SEC (the "August 2024 Offering"). Under the terms of the Underwriting Agreement, we also granted the Underwriters an option exercisable for 30 days to purchase up to an additional 1,384,615 shares of our common stock at the public offering price, less underwriting discounts and commissions, which the Underwriters exercised in full on August 9, 2024. The August 2024 Offering closed on August 12, 2024. Total shares issued were 10,615,385. Net proceeds from the offering were approximately \$ 64.5 million, after deducting underwriting discounts and commissions and estimated offering expenses payable by us. We intend to use the net proceeds of the offering to support the commercial launch activities for MIPLYFFA, continued commercial support for OLPRUVA and the continued development of celiprolol and KP1077 through potential NDA filings and other general corporate purposes. Entry into 2024 ATM Agreement On July 12, 2024, we entered into an equity distribution agreement (the "2024 ATM Agreement") with Citizens JMP Securities LLC ("Citizens JMP") under which we may offer and sell, from time to time at our sole discretion, shares of our common stock having an aggregate offering price of up to \$ 75.0 million through Citizens JMP as its sales agent. The issuance and sale, if any, of common stock by us under the 2024 ATM Agreement will be made pursuant to the June 2024 Registration Statement, the accompanying prospectus, and the related prospectus supplement dated July 12, 2024. Citizens JMP may sell the common stock by any method permitted by law deemed to be an "at the market offering" as defined in Rule 415 of the Securities Act. Citizens JMP will use commercially reasonable efforts to sell the common stock from time to time, based upon instructions from us (including any price, time or size limits or other customary parameters or conditions we may impose). We will pay Citizens JMP a commission equal to 3.0% in the aggregate of the gross sales proceeds of any common stock sold through Citizens JMP under the 2024 ATM Agreement. As of December 31, 2024, no shares have been issued or sold under the 2024 ATM Agreement. Termination of 2021 ATM Agreement On July 2, 2021, we entered into an equity distribution agreement (the "2021 ATM Agreement") with JMP Securities LLC ("JMP") and RBC Capital Markets, LLC ("RBCCM") under which we may offer and sell, from time to time at our sole discretion, shares of our common stock having an aggregate offering price of up to \$ 75.0 million through JMP and RBCCM as its sales agents. The issuance and sale, if any, of common stock by us under the 2021 ATM Agreement was to be made pursuant to the registration statement on Form S-3 (File No. 333-257661) which was declared effective on July 12, 2021, the accompanying prospectus, and the related prospectus supplement dated July 12, 2021. The 2021 ATM Agreement terminated on July 11, 2024, and no shares had been issued or sold under the 2021 ATM Agreement as of the termination date. Merger Transactions and Documents On August 30, 2023, in connection with the Merger Agreement with Acer, the following transactions occurred prior to Closing: • Bridge Loan- Zevra and Acer entered into a bridge loan agreement (the "Bridge Loan Agreement"), providing for Zevra to make loans (collectively, the "Bridge Loan") to Acer up to an aggregate principal amount of \$ 16.5 million. The Bridge Loan was provided to Acer to support its termination agreement with Relief Therapeutics Holding SA ("Relief") and to provide Acer with working capital, including for payments of accounts payable to support the commercial launch of OLPRUVA and the development of celiprolol pending the Merger's closure. On October 31, 2023, the Company and Acer entered into an amendment to the Bridge Loan Agreement, which increased the aggregate principal amount available under the loan from \$ 16.5 million to \$ 17.8 million. • Purchase of Acer's Term Loans- Zevra purchased certain indebtedness of Acer held by Nantahala. Under the loan purchase with Nantahala, certain of its affiliates and certain other parties (collectively with Nantahala, "Nantahala Holders") Zevra purchased (i) an original senior secured term loan facility made available to Acer in an aggregate amount of \$ 6.5 million and funded on March 14, 2022, and (ii) an additional senior secured term loan made to Acer in an aggregate amount of \$ 7.0 million in a single borrowing which funded on January 31, 2023 for (1) \$ 12.0 million in cash; (2) 98,683 shares of Zevra Common Stock; and (3) a secured Promissory Note payable by Zevra to Nantahala in the original principal amount \$ 5.0 million, which was repaid in full and terminated in April 2024. These were recorded as receivables from Acer and were treated as a settlement of a preexisting relationship in connection with the closing of the transaction and recorded as a component of purchase consideration. • Purchase of Acer's Convertible Notes ("Marathon Convertible Notes")- Under the Note Purchase Agreement with the Nantahala Holders, Zevra purchased the Marathon Convertible Notes that Nantahala had acquired on June 16, 2023. Zevra acquired the Marathon Convertible Notes in exchange for the issuance of 2,171,038 shares of Zevra Common Stock at \$ 5.0667 per share for a total purchase price of \$ 11.0 million. 87 • Amendment to IP License Agreement and IP Termination Agreement: As a condition to entering into the Merger Agreement, Acer and Relief entered into the Exclusive License Agreement and the Termination Agreement terminating the collaboration and license agreement, dated March 19, 2021, by and between Acer and Relief. Pursuant to the Exclusive License Agreement, Relief holds exclusive development and commercialization rights for OLPRUVA in the European Union, Liechtenstein, San Marino, Vatican City, Norway, Iceland, Principality of Monaco, Andorra, Gibraltar, Switzerland, United Kingdom, Albania, Bosnia, Kosovo, Montenegro, Serbia and North Macedonia (Geographical Europe). Acer has the right to receive a royalty of up to 10.0% of the net sales of OLPRUVA in Geographical Europe. In accordance with the terms of the Termination Agreement, Relief received an upfront payment from Acer of \$ 10.0 million (which payment was funded with the Bridge Loan described above) with an additional payment of \$ 1.5 million due on the first-year anniversary of the \$ 10.0 million payment. Acer has also agreed to pay a 10.0% royalty on net sales of OLPRUVA worldwide, excluding Geographical Europe, and 20.0% of any value received by Acer from certain third parties relating to OLPRUVA licensing or divestment rights, all of the foregoing which are capped at \$ 45.0 million, for total payments to Relief of up to \$ 56.5 million. In connection with the closing of the Merger on November 17, 2023, each share of common stock of Acer was converted into the right to receive (i) 0.1210 fully paid and non-assessable shares of common stock of Zevra, par value \$ 0.0001 per share, and (ii) one non-transferable CVR to be issued by Zevra, which will represent the right to receive one or more contingent payments up to an additional \$ 76.0 million upon the achievement, if any, of certain commercial and regulatory milestones for Acer's OLPRUVA and celiprolol products within specified time periods. Certain additional cash payments are also possible pursuant to the CVRs with respect to milestones involving Acer's early-stage program ACER-2820 (emetine). Stockholders Agreement In connection with the Merger, a certain stockholder of Acer entered into, and Acer agreed to use its reasonable best efforts to cause certain other stockholders to enter into joinders to, a stockholders agreement with Zevra (the "Stockholders Agreement"). Pursuant to the Stockholders Agreement, the stockholders party thereto agreed to, or would agree to, among other things, vote all of their shares in Zevra that they own in favor of each nominee included in the Zevra board of director's slate of nominees for each election of directors and in favor of each matter approved by the Zevra board of directors and submitted to stockholders of Zevra for the approval of stockholders following the closing of the Merger and until the second anniversary of the closing date of the Merger (the "Trigger Date"). In addition, the stockholders party to the Stockholders Agreement will be subject to customary standstill provisions, subject to certain exceptions, until the Trigger Date. Cancellation of Acer Warrant On November 22, 2023, we sold an aggregate of 1,382,489 shares of our common stock and accompanying warrants to purchase up to 1,382,489 shares of our common stock at a price of \$ 4.34 per share to a healthcare focused investment fund (the "Investor") for gross proceeds of approximately \$ 6.0 million and an aggregate of 917,934 shares of our common stock to cancel a warrant held by the Investor to purchase 2,920,306 shares of common stock of Acer. The shares of common stock and warrants were offered and sold to the Investor in a registered direct offering without an underwriter or placement agent. Margin Account On January 26, 2023, the Company and Wells Fargo, as lender, entered into a margin account agreement. The margin account bears interest at the Prime Rate minus 225 basis points. The Company's investments are used as collateral for the loan and the amount the Company is able to borrow is limited to 80-90% of its outstanding investment balance held with Wells Fargo. As of December 31, 2023, \$ 37.7 million was outstanding under the margin account. The margin loan was included in current liabilities as of December 31, 2023, as the Company expected the outstanding balance to be due and payable in 2024 based on the anticipated level of investment balance expected to be available over the course of fiscal year 2024 to meet the Collateral Requirement. In April 2024, the Company repaid the outstanding balance under the margin account with Wells Fargo, and upon such repayment, the margin capabilities were removed from the account. 88Cash Flows The following table summarizes our cash flows for the years ended December 31, 2024 and 2023 (in thousands):

Year Ended December 31, Period-	to 2024	2023	Period Change	
Net cash used in operating activities	\$ (69,665)	\$ (33,535)	\$ (36,130)	
Net cash used in investing activities	(22,161)	(17,390)	(4,771)	
Net cash provided by financing activities	82,108	28,464	53,644	
Effect of exchange rate changes on cash and cash equivalents	Net decrease in cash and cash equivalents	\$ (9,264)	\$ (22,417)	\$ 13,153
Operating Activities	For the year ended December 31, 2024,	net cash used in operating activities of \$		

69.7 million consisted of a net loss of \$ 105.5 million and \$ 6.6 million in changes in working capital, partially offset by \$ 42.5 million in adjustments for non-cash items. Net loss was primarily attributable to our spending on research and development programs and operating costs, partially offset by revenue received from MIPLYFFA and OLPRUVA product sales, royalties under the AZSTARYS License Agreement, and reimbursements from the EAP. The changes in working capital consisted of \$ 3.6 million related to a change in accounts payable and accrued expenses, \$ 8.9 million related to a change in inventories, \$ 2.2 million related to a change in prepaids and other assets, and \$ 0.6 million related to operating lease liabilities, partially offset by \$ 0.4 million related to a change in discount and rebate liabilities, \$ 0.6 million related to a change in operating lease right of use assets, \$ 0.8 million related to a change in other liabilities, and \$ 6.9 million increase in accounts and other receivables. The adjustments for non-cash items primarily consisted of income tax expense of \$ 15.4 million, stock-based compensation expense of \$ 14.9 million, consulting fees paid in stock of \$ 0.5 million, interest expense of \$ 2.1 million, inventory obsolescence of \$ 5.7 million and \$ 5.7 million related to depreciation, amortization and other items, and a loss on disposal of \$ 0.2 million, partially offset by a change in fair value adjustment of warrants and CVR of \$ 2.1 million. For the year ended December 31, 2023, net cash used in operating activities of \$ 33.5 million consisted of a net loss of \$ 46.0 million, partially offset by \$ 6.0 million in changes in working capital and \$ 6.5 million in adjustments for non-cash items. Net loss was primarily attributable to our spending on research and development programs and operating costs, partially offset by revenue received under the AZSTARYS License Agreement, EAP and the Corium Consulting Agreement. The changes in working capital consisted of \$ 11.1 million related to a change in accounts payable and accrued expenses, \$ 3.2 million related to a change in discount and rebate liabilities, \$ 0.2 million related to a change in inventories, \$ 0.3 million related to a change in operating lease right of use assets, \$ 0.4 million related to a change in other liabilities, and \$ 0.2 million related to a change in prepaids and other assets, partially offset by a \$ 9.1 million increase in accounts and other receivables, and \$ 0.3 million related to operating lease liabilities. The adjustments for non-cash items primarily consisted of stock-based compensation expense of \$ 5.9 million, consulting fees paid in stock of \$ 0.2 million, and \$ 1.0 million related to depreciation, amortization and other items, partially offset by a change in the fair value adjustment related to investments of \$ 0.6 million. Investing Activities For the year ended December 31, 2024, net cash used in investing activities was \$ 22.1 million, which was attributable to purchases of investments of \$ 41.1 million and a \$ 6.0 million regulatory milestone payment to XOMA, partially offset by maturities of investments of \$ 25.0 million. For the year ended December 31, 2023, net cash used in investing activities was \$ 17.4 million, which was attributable to \$ 30.4 million attributable to the acquisition of Acer, purchases of investments of \$ 45.8 million, and \$ 0.3 million in purchases of property and equipment, partially offset by maturities of investments of \$ 59.1 million. Financing Activities For the year ended December 31, 2024, net cash provided by financing activities was \$ 82.1 million, which was primarily attributable to proceeds from the issuance of debt of \$ 58.9 million, proceeds from insurance financing arrangements of \$ 1.0 million and proceeds from sales of common stock under the Employee Stock Purchase Plan, or the ESPP, of \$ 1.1 million, proceeds from issuance of common stock of \$ 66.2 million, partially offset by repayments of debt of \$ 42.7 million, payments of principal on insurance financing arrangements of \$ 0.4 million, and payments of deferred offering costs of \$ 2.0 million. For the year ended December 31, 2023, net cash provided by financing activities was \$ 28.5 million, which was primarily attributable to proceeds from the issuance of debt of \$ 42.4 million, proceeds from insurance financing arrangements of \$ 1.3 million and proceeds from sales of common stock under the Employee Stock Purchase Plan, or the ESPP, of \$ 0.2 million, proceeds from issuance of common stock of \$ 6.0 million, partially offset by repayments of debt of \$ 17.5 million, payments to repurchase shares as part of the Share Repurchase Program of \$ 3.4 million, and payments of principal on insurance financing arrangements of \$ 0.5 million. 89Future Funding Requirements We believe that our existing cash, cash equivalents and investments will be sufficient to fund our operations into 2029, subject to continuing compliance with our debt covenants. This estimate includes anticipated revenue from net sales of OLPRUVA and MIPLYFFA, net reimbursements from the EAP, royalties under the AZSTARYS License Agreement, and accounts for continued investments into our development pipeline programs. This estimate does not include proceeds from the PRV sale, which was announced on February 26, 2025. We maintain the majority of our cash and cash equivalents in accounts with major U.S. and multi-national financial institutions, and our deposits at these institutions exceed insured limits. Market conditions can impact the viability of these institutions. In the event of a failure of any of the financial institutions where we maintain our cash and cash equivalents, there can be no assurance that we would be able to access uninsured funds in a timely manner or at all. Any inability to access or delay in accessing these funds could adversely affect our business and financial position. Potential near-term sources of additional funding include: • any royalties or net sales milestone payments generated under the AZSTARYS License Agreement; • any reimbursements received for arimoclomol under the EAP; • any product sales of OLPRUVA, and • any product sales of MIPLYFFA. We cannot guarantee that we will be able to generate sufficient proceeds from any of these potential sources to fund our operating expenses. We anticipate that our expenses will fluctuate substantially as we: • continue our ongoing clinical trials and our product development activities for our pipeline of product candidates; • seek regulatory approvals for any product candidates that successfully complete clinical trials; • continue research and development and clinical trials of our product candidates; • seek to discover and develop additional product candidates either internally or in partnership with other pharmaceutical companies; • adapt our regulatory compliance efforts to incorporate requirements applicable to marketed products; • adapt our regulatory compliance efforts to incorporate requirements applicable to marketed products; • maintain, expand and protect our intellectual property portfolio; and • incur additional legal, accounting and other expenses in operating as a public company. To date, we have generated revenue from OLPRUVA and MIPLYFFA product sales, the AZSTARYS License Agreement, reimbursements of out-of-pocket third-party costs, the performance of consulting services, and product reimbursements under the EAP. We expect that, for the foreseeable future, our only sources of revenues will be through product sales of OLPRUVA and MIPLYFFA, payments arising from the AZSTARYS License Agreement, and any other future arrangements related to one of our product candidates and product sales under the EAP. We cannot guarantee that our current commercialization strategies, or any strategy we adopt in the future, will be successful. For instance, we received milestone payments under the AZSTARYS License Agreement, but we cannot guarantee that we will earn any additional milestone or royalty payments under this agreement in the future. We also cannot guarantee that we will continue to receive reimbursements under the EAP or successfully commercialize OLPRUVA or MIPLYFFA. We also expect to continue to incur significant additional costs associated with operating as a public company. We have based our estimates of our cash needs and cash runway on assumptions that may prove to be wrong, and we may use our available capital resources sooner than we currently expect and we cannot guarantee that we will be able to generate sufficient proceeds from product sales of OLPRUVA and MIPLYFFA, the AZSTARYS License Agreement, product reimbursements under the EAP, or other funding transactions to fund our operating expenses. To meet any additional cash requirements, we may seek to sell additional equity or convertible securities that may result in dilution to our stockholders, issue additional debt or seek other third-party funding, including potential strategic transactions, such as licensing or collaboration arrangements. Because of the numerous risks and uncertainties associated with the development and commercialization of product candidates and products, we are unable to estimate the amounts of increased capital outlays and operating expenditures necessary to complete the commercialization and development of our partnered product or product candidates, should they obtain regulatory approval. Adequate additional financing may not be available to us on acceptable terms, or at all. To the extent that we raise additional capital through the sale of equity or debt, the terms of these securities may restrict our ability to operate. If we raise additional funds through collaborations, strategic alliances or marketing, distribution or licensing arrangements with third parties, we may be required to relinquish valuable rights. If we are unable to raise capital when needed or on attractive terms, we could be forced to delay, reduce or altogether cease our research and development programs and / or commercialization efforts. 90Critical Accounting Estimates This management's discussion and analysis of our financial condition and results of operations is based on our financial statements, which we have prepared in accordance with accounting principles generally accepted in the United States. The preparation of our financial statements requires us to make estimates that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of our financial statements, as well as the reported revenues and expenses during the reported periods. We evaluate these estimates on an ongoing basis. We base our estimates on historical experience and on various other factors that we believe are reasonable under the circumstances. Actual results may differ from these estimates under different assumptions or conditions. While our significant accounting policies are more fully described in Note B to our audited financial statements appearing elsewhere in this Annual Report on Form 10-K, we believe that the following accounting policies are critical to the process of making significant estimates in the preparation of our financial statements and understanding and evaluating our reported financial results. Acquisition of Intangible Assets We record all assets and liabilities acquired in business acquisitions at fair value, including goodwill and other intangible assets. The initial recognition of goodwill and other intangible assets requires management to make subjective judgments concerning estimates of how the acquired assets will perform in the future using valuation methods including discounted cash flow analysis. Inherent in the determination of fair value of the reporting units are certain estimates and judgments, including the interpretation of current economic indicators and market valuations, as well as management's strategic plans with regard to its operations. When utilizing a quantitative assessment, we determine fair value at the reporting unit level based on a combination of an income approach and market approach. The income approach is based on estimated future cash flows, discounted at a rate that approximates the cost of capital of a market participant, while the market approach is based on sales and / or earnings multiples of similar companies. These approaches use significant estimates and assumptions, including projected future cash flows and the timing of those cash flows, discount rates reflecting risks inherent in future cash flows, perpetual growth rates, and determination of appropriate market comparables. Goodwill and Definite-Lived Intangible Assets Goodwill represents the excess of the purchase price of an acquired business over the fair value assigned to the assets purchased and liabilities assumed. Goodwill is not amortized but is evaluated for impairment within our single reporting unit on an annual basis, during the fourth quarter, or more frequently if an event occurs or circumstances change that would more-likely-than-not reduce the fair value of our reporting unit below its carrying amount. Our estimates associated with the annual test of goodwill for impairment, as well as the as-needed assessment of the recoverability of definite-lived intangible assets, are considered critical due to the amount of these assets recorded on our consolidated balance sheets and the judgment required. With respect to definite-lived intangible assets, we periodically evaluate whether events and circumstances have occurred that may affect the estimated useful life or the recoverability of the remaining balance of such assets. If such events or circumstances indicate that the carrying amount of these assets may not be recoverable, management would estimate the future cash flows expected to result from the use of the assets and their eventual disposition. If the sum of the expected future cash flows (undiscounted and without interest charges) were less than the carrying amount of the assets, we would recognize an impairment charge to reduce such assets to their fair value. Revenue Recognition The Company recognizes revenue in accordance with ASC 606, Revenue from Contracts with Customers ("ASC 606") and, as a result, follows the five-step model when recognizing revenue: 1) identifying a contract; 2) identifying the performance obligations; 3) determining the transaction price; 4) allocating the price to the performance obligations; and 5) recognizing revenue when the performance obligations have been fulfilled. Net revenues from product sales are

recognized at the transaction price when the customer obtains control of the Company's product, which occurs at a point in time, typically upon receipt of the product by the customer. The Company's current single customer is a specialty pharmacy provider. The Company's net revenues represent total revenues adjusted for discounts and allowances, including estimated cash discounts, chargebacks, rebates, returns, copy assistance, data fees and wholesaler fees for services. These adjustments represent variable consideration under ASC 606 and are recorded as a reduction of revenue. These adjustments are established by management as its best estimate based on available information and will be adjusted to reflect known changes in the factors that impact such allowances. Adjustments for variable consideration are determined based on the contractual terms with customers, historical trends, communications with customers and the levels of inventory remaining in the distribution channel, as well as expectations about the market for the product and anticipated introduction of competitive products. Accrued Expenses We enter into contractual agreements with third-party vendors who provide research and development, manufacturing, and other services in the ordinary course of business. Some of these contracts are subject to milestone-based invoicing and services are completed over an extended period of time. We record liabilities under these contractual commitments when an obligation has been incurred. This accrual process involves reviewing open contracts and purchase orders, communicating with our applicable personnel to identify services that have been performed and estimating the level of service performed and the associated cost when we have not yet been invoiced or otherwise notified of actual cost. The majority of our service providers invoice us monthly in arrears for services performed. We make estimates of our accrued expenses as of each balance sheet date based on the facts and circumstances known to us. We periodically confirm the accuracy of our estimates with the service providers and make adjustments if necessary. Examples of estimated accrued expenses include: • fees paid to CROs in connection with preclinical and toxicology studies and clinical trials; • fees paid to investigative sites in connection with clinical trials; • fees paid to contract manufacturers in connection with the production of our raw materials, drug substance and product candidates; and • professional fees. We base our expenses related to clinical trials on our estimates of the services received and efforts expended pursuant to contracts with multiple research institutions and CROs that conduct and manage clinical trials on our behalf. The financial terms of these agreements are subject to negotiation, vary from contract to contract and may result in uneven payment flows. Payments under some of these contracts depend on factors such as the successful enrollment of patients and the completion of clinical trial milestones. In accruing service fees, we estimate the time period over which services will be performed and the level of effort expended in each period. If the actual timing of the performance of services or the level of effort varies from our estimate, we will adjust the accrual accordingly. If we do not identify costs that we have begun to incur or if we underestimate or overestimate the level of these costs, our actual expenses could differ from our estimates. 91Stock-Based Compensation We record the fair value of stock options issued as of the grant date as compensation expense. We recognize compensation expense over the requisite service period, which is equal to the vesting period. Stock-based compensation expense has been reported in our statements of operations as follows (in thousands): Year Ended December 31, 2024 2023 Research and development \$ 5,819 \$ 2,664 General and administrative 9,087 3,290 Total stock-based compensation \$ 14,906 \$ 5,954 Determination of the Fair Value of Stock-Based Compensation Grants We calculate the fair value of stock-based compensation arrangements using the Black-Scholes option-pricing model. The Black-Scholes option-pricing model requires the use of subjective assumptions, including the expected volatility of our common stock, the assumed dividend yield, the expected term of our stock options, the risk-free interest rate for a period that approximates the expected term of our stock options and the fair value of the underlying common stock on the date of grant. In applying these assumptions, we considered the following factors: • historically we have not had sufficient experience to estimate the volatility of our common stock. As such, we calculated the expected volatility based on reported data for selected similar publicly traded companies for which the historical information is available, or peer volatility, and blended it with our historical volatility, or leverage-adjusted peer volatility. For the purpose of identifying peer companies, we consider characteristics such as industry, length of trading history, similar vesting terms and in-the-money option status. We utilized this leverage-adjusted peer volatility for grants prior to the initial public offering, as well as grants within the two-year period immediately following the initial public offering. For grants after the second anniversary of the initial public offering we utilized our historical volatility to determine the expected volatility; • the assumed dividend yield is based on our expectation of not paying dividends for the foreseeable future; • we determine the average expected life of "plain vanilla" stock options based on the simplified method in accordance with SEC Staff Accounting Bulletin Nos. 107 and 110, as our common stock to date has been publicly traded for a limited amount of time. We expect to use the simplified method until we have sufficient historical exercise data to provide a reasonable basis upon which to estimate expected term. For options that are not considered "plain vanilla," such as those with exercise prices in excess of the fair market value of the underlying stock, we use an expected life equal to the contractual term of the option; • we determine the risk-free interest rate by reference to implied yields available from U.S. Treasury securities with a remaining term equal to the expected life assumed at the date of grant; and • we estimate forfeitures based on our historical analysis of actual stock option forfeitures. We account for stock-based compensation arrangements with directors and consultants that contain only service conditions for vesting using a fair value approach. The grant date fair value of these options is measured using the Black-Scholes option pricing model reflecting the same assumptions as applied to employee options in each of the reported periods, other than the expected life, which is assumed to be the remaining contractual life of the option. The following summarizes the assumptions used for estimating the fair value of stock options granted to employees for the periods indicated: Year Ended December 31, 2024 2023 Risk-free interest rate 3.82 %- 4.50 % 3.34 %- 4.79 % Expected term (in years) 5.50 - 6.25 5.50 - 10.00 Expected volatility 89.85 %- 91.32 % 89.48 %- 93.67 % Expected dividend yield Utilization of Net Operating Loss Carryforwards and Research and Development Credits As of December 31, 2024, we had federal net operating loss, or NOL, carryforwards of approximately \$ 381.3 million, \$ 118.5 million of which, if not utilized, will begin to expire in 2027 and \$ 262.8 million of which have no expiration date. We also have certain state net operating loss carryforwards totaling \$ 428.6 million, which, if not utilized, will begin to expire in 2027. We also have Denmark net operating loss carryforwards totaling \$ 7.7 million which have an indefinite carryforward period in Denmark. The Company recorded refundable research and development tax credit as other income and not income tax under ASC 740 in the consolidated statement of operations for the year ended December 31, 2024. These refundable tax credits are a result of increased qualified research and development spending in certain jurisdictions which allow for a refundable credit even when the Company has no current period income tax expense. In accordance with Section 382 of the Code, a change in equity ownership of greater than 50 % within a three-year period results in an annual limitation on a company's ability to utilize its NOL carryforwards created during the tax periods prior to the change in ownership. We performed a Section 382 ownership change analysis in 2017 and determined that we experienced an ownership change in 2010, which resulted in a portion of our net operating loss carryforwards being subject to an annual limitation under Section 382 through 2012. No other ownership changes or limitations on our historical net operating loss carryforwards were noted through the year ended December 31, 2017. In addition, we may have already experienced an ownership change, or may experience an ownership change in the future, as a result of shifts in our stock ownership. If we determine that an ownership change has occurred and our ability to use our historical net operating loss carryforwards is materially limited, it would harm our future operating results by increasing our future tax obligations. 92Warrants We account for warrants as either equity-classified or liability-classified instruments based on an assessment of the warrant's specific terms and applicable authoritative guidance in FASB ASC Topic 480, Distinguishing Liabilities from Equity (ASC 480) and FASB ASC Topic 815, Derivatives and Hedging (ASC 815). The assessment considers whether the warrants are freestanding financial instruments pursuant to ASC 480, meet the definition of a liability pursuant to ASC 480, and whether the warrants meet all of the requirements for equity classification under ASC 815, including whether the warrants are indexed to our own stock and whether the warrant holders could potentially require "net cash settlement" in a circumstance outside of the company's control, among other conditions for equity classification. This assessment, which requires the use of professional judgment, is conducted at the time of warrant issuance and as of each subsequent quarterly period end date while the warrants are outstanding. For warrants that meet all criteria for equity classification, the warrants are required to be recorded as a component of additional paid-in capital, on the consolidated statement of stockholders' deficit at the time of issuance. For warrants that do not meet all the criteria for equity classification, the warrants are required to be recorded at their initial fair value on the date of issuance, and on each balance sheet date thereafter. Changes in the estimated fair value of the warrants are recognized as a non-cash gain or loss in other expense, net, on the consolidated statement of operations. The fair value of the warrants was estimated using the Black-Scholes option pricing model. 93ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA The financial statements required by this Item 8 are set forth beginning in Item 15 of this report and are incorporated herein by reference. ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE ITEM 9A. CONTROLS AND PROCEDURES Limitations on effectiveness of controls and procedures In designing and evaluating our disclosure controls and procedures, management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives. In addition, the design of disclosure controls and procedures must reflect the fact that there are resource constraints and that management is required to apply judgment in evaluating the benefits of possible controls and procedures relative to their costs. Evaluation of Disclosure Controls and Procedures Our management, with the participation of our chief executive officer and our chief financial officer, evaluated the effectiveness of our disclosure controls and procedures (as defined in Rules 13a-15 (e) and 15d-15 (e) under the Exchange Act) as of December 31, 2024. Based on the evaluation of our disclosure controls and procedures as of December 31, 2024, our chief executive officer and our chief financial officer concluded that, as of such date, our disclosure controls and procedures were effective at the reasonable assurance level. Management's Report on Internal Control over Financial Reporting Management is responsible for establishing and maintaining adequate internal control over our financial reporting, as such term is defined in Rules 13a-15 (f) and 15d-15 (e) under the Exchange Act. Under the supervision and with the participation of our management, including our chief executive officer and chief financial officer, we conducted an evaluation of the effectiveness of our internal control over financial reporting. Management has used the framework set forth in the report entitled "Internal Control – Integrated Framework (2013)" published by the Committee of Sponsoring Organizations of the Treadway Commission to evaluate the effectiveness of our internal control over financial reporting. Based on its evaluation, management has concluded that our internal control over financial reporting was effective as of December 31, 2024. Our independent registered public accounting firm has not performed an evaluation of our internal control over financial reporting during any period in accordance with the provisions of the Sarbanes-Oxley Act. For as long as we remain a non-accelerated filer, we intend to take advantage of the exemption permitting us not to comply with the requirement that our independent registered public accounting firm provide an attestation on the effectiveness of our internal control over financial reporting. 94Changes in Internal Control over Financial Reporting There was no change in our internal control over financial reporting identified in connection with the evaluation required by Rules 13a-15 (d) and 15d-15 (d) of the Exchange Act that occurred during our fiscal quarter ended December 31, 2024, that materially affected, or is reasonably likely to materially affect, our internal control over

financial reporting, ITEM 9B. OTHER INFORMATION (a) Disclosure in lieu of reporting on a Current Report on Form 8-K. None. (b) Insider Trading Arrangements and Policies. During the three- months ended December 31, 2024, none of our directors or officers (as defined in Rule 16a-1 (f) of the Exchange Act) adopted, modified or terminated any contract, instruction or written plan for the purchase or sale of our securities that was intended to satisfy the affirmative defense conditions of Rule 10b5-1 (c) of the Exchange Act or any non- Rule 10b5-1 trading arrangement (as defined in Item 408 (c) of Regulation S-K). ITEM 9C. DISCLOSURES REGARDING FOREIGN JURISDICTIONS THAT PREVENT INSPECTIONS 95PART III ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE The information required by this Item 10 will be set forth in the headings " Proposal 1 – Election of Directors, " " Executive Officers " and " Information Regarding the Board of Directors and Corporate Governance " and " Delinquent Section 16 (a) Reports " in our definitive proxy statement for our 2025 annual meeting of stockholders, or the proxy statement, and, is incorporated herein by reference. We have adopted a Code of Business Conduct and Ethics, or the Code of Conduct, applicable to all of our employees, executive officers and directors, including our principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions. The Code of Conduct is available on our website at www.zevra.com. The nominating and corporate governance committee of our board of directors is responsible for overseeing the Code of Conduct and must approve any waivers of the Code of Conduct for employees, executive officers and directors. We intend to post any amendments to the Code of Conduct or any waivers of its requirements for any executive officer or director on our website. ITEM 11. EXECUTIVE COMPENSATION The information required by this Item 11 will be set forth under the headings " Executive Compensation ", " Director Compensation " and " Information Regarding the Board of Directors and Corporate Governance " in our proxy statement and is incorporated herein by reference. ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT The information required by this Item 12 will be set forth under the headings " Security Ownership of Certain Beneficial Owners and Management " and " Securities Authorized for Issuance under the Equity Compensation Plans " in the proxy statement and is incorporated herein by reference. ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE The items required by this Item 13 will be set forth under the headings " Information Regarding the Board of Directors and Corporate Governance " and " Transactions with Related Persons " in the proxy statement and is incorporated herein by reference. ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES The information required by this Item 14 will be set forth under the proposal with the heading " Proposal 2- Ratification of Appointment of Independent Registered Public Accounting Firm " in the proxy statement and is incorporated herein by reference. 96PART IV ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES (a) The following documents are filed as part of this report: (1) Index list to Financial Statements: Page Report of EY US LLP (PCAOB ID: 42) Consolidated Balance Sheets as of December 31, 2024, and 2023 99 Consolidated Statements of Operations for the years ended December 31, 2024, and 2023 100 Consolidated Statements of Comprehensive Loss for the years ended December 31, 2024, and 2023 100 Consolidated Statements of Changes in Stockholders' Equity for the years ended December 31, 2024, and 2023 102 Consolidated Statements of Cash Flows for the years ended December 31, 2024, and 2023 103 Notes to Consolidated Financial Statements 104 (2) Financial Statement Schedules All other schedules are omitted because they are not required or the required information is included in the financial statements or notes thereto. (3) Exhibits The exhibits listed in the accompanying Exhibit Index are filed or incorporated by reference as part of this report. 97Report of Independent Registered Public Accounting Firm To the Stockholders and the Board of Directors of Zevra Therapeutics, Inc. Opinion on the Financial Statements We have audited the accompanying consolidated balance sheets of Zevra Therapeutics, Inc. (the Company) as of December 31, 2024 and 2023, the related consolidated statements of operations, comprehensive loss, changes in stockholders' equity and cash flows for each of the two years in the period ended December 31, 2024, and the related notes (collectively referred to as the " consolidated financial statements "). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 31, 2024 and 2023, and the results of its operations and its cash flows for each of the two years in the period ended December 31, 2024, in conformity with U. S. generally accepted accounting principles. Basis for Opinion These financial statements are the responsibility of the Company' s management. Our responsibility is to express an opinion on the Company' s financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U. S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB. We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company' s internal control over financial reporting. Accordingly, we express no such opinion. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion. Critical Audit Matter The critical audit matter communicated below is a matter arising from the current period audit of the financial statements that was communicated or required to be communicated to the audit committee and that: (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective or complex judgments. The communication of the critical audit matter does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the account or disclosures to which it relates. Intangible Assets Description of the Matter At December 31, 2024, the Company had a definite- lived intangible asset related to the acquisition of OLPRUVA of \$ 61.3 million. As discussed in Notes B and S to the consolidated financial statements, the Company periodically evaluates whether events and circumstances have occurred that may affect the recoverability of the remaining balance of such asset. During the year ended December 31, 2024, management considered events or circumstances that would indicate that the carrying amount of this asset may not be recoverable, and prepared an estimate of the future cash flows expected to result from the use of the asset and their eventual disposition. This analysis yielded a conclusion that the asset was recoverable as of December 31, 2024 and no impairment was recorded as of and for the year then ended. Auditing the Company' s recoverability analysis for its definite- lived intangible asset related to the acquisition of OLPRUVA was complex due to the significant estimation uncertainty pertaining to the significant assumption of forecasted revenues used in management' s analysis. The significant estimation uncertainty was primarily due to the lack of historical revenue experience observed during the course of the year ended December 31, 2024. This significant assumption is forward- looking and could be affected by future economic and market conditions. How We Addressed the Matter in Our Audit To test the recoverability analysis for its definite- lived intangible asset related to the acquisition of OLPRUVA, our audit procedures included, among others, evaluating the prospective financial information (" PFI ") used in management' s analysis, testing the completeness and accuracy of the underlying data and evaluating the Company' s use of appropriate impairment evaluation methodologies. Our procedures to assess the PFI used in the analysis, included, among others, evaluating the significant assumption discussed above, by comparing it to industry and economic publications and trends, analyst reports, and other objective sources. / s / Ernst & Young LLP We have served as the Company' s auditor since 2022. Orlando, Florida March 12, 2025 98ZEVRA THERAPEUTICS, INC. CONSOLIDATED BALANCE SHEETS (in thousands, except share and par value amounts) December 31, 2024 2023 Assets Current assets: Cash and cash equivalents \$ 33,785 \$ 43,049 Securities at fair value, current 35,711 24,688 Accounts and other receivables 10,509 17,377 Prepaid expenses and other current assets 4,052 1,824 Inventories, current 1,970- Total current assets 86,027 86,938 Securities at fair value, noncurrent 6,010- Inventories, noncurrent 10,999 9,841 Property and equipment, net 356 736 Operating lease right- of- use assets 657 790 Goodwill 4,701 4,701 Intangible assets, net 68,993 69,227 Other long- term assets 384 94 Total assets \$ 178,127 \$ 172,327 Liabilities and stockholders' equity Current liabilities: Accounts payable and accrued expenses \$ 25,456 \$ 28,403 Line of credit payable- 37,700 Current portion of operating lease liabilities 420 543 Current portion of discount and rebate liabilities 4,989 4,550 Other current liabilities 3,200 2,524 Total current liabilities 34,065 73,720 Long- term debt 59,504 5,066 Derivative and warrant liability 17,804 16,100 Income tax payable, noncurrent 14,431- Operating lease liabilities, less current portion 372 456 Discount and rebate liabilities, less current portion 7,655 7,663 Other long- term liabilities 4,630 7,458 Total liabilities 138,461 110,463 Commitments and contingencies (Note K) Stockholders' equity: Preferred stock: Undesignated preferred stock, \$ 0.0001 par value, 10,000,000 shares authorized, no shares issued or outstanding as of December 31, 2024 or December 31, 2023- Common stock, \$ 0.0001 par value, 250,000,000 shares authorized, 55,246,401 shares issued and 53,670,709 shares outstanding as of December 31, 2024; 43,110,360 shares issued and 41,534,668 shares outstanding as of December 31, 2023 5 4 Additional paid- in capital 555,302 472,664 Treasury stock, at cost (10,983) (10,983) Accumulated deficit (505,289) (399,778) Accumulated other comprehensive income (loss) 631 (43) Total stockholders' equity 39,666 61,864 Total liabilities and stockholders' equity \$ 178,127 \$ 172,327 See accompanying notes to consolidated financial statements 99CONSOLIDATED STATEMENTS OF OPERATIONS (in thousands, except share and per share amounts) Year Ended December 31, 2024 2023 Revenue, net \$ 23,612 \$ 27,461 Cost of product revenue (excluding \$ 6,235 and \$ 772 in intangible asset amortization for the years ended December 31, 2024, and 2023, respectively, shown separately below) 7,417 2,173 Intangible asset amortization 6,235 772 Operating expenses: Research and development 42,095 39,806 Selling, general and administrative 54,868 34,314 Total operating expenses 96,963 74,120 Loss from operations (87,003) (49,604) Other (expense) income: Interest expense (7,351) (1,501) Fair value adjustment related to warrant and CVR liability 2,057 (98) Fair value adjustment related to investments (18) 613 Interest and other income, net 2,175 4,541 Total other (expense) income (3,137) 3,555 Loss before income taxes (90,140) (46,049) Income tax expense (15,371)- Net loss \$ (105,511) \$ (46,049) Basic and diluted net loss per share of common stock: Net loss \$ (2.28) \$ (1.30) Weighted average number of shares of common stock outstanding: Basic and diluted 46,251 239 35,452,460 See accompanying notes to consolidated financial statements 100CONSOLIDATED STATEMENTS OF COMPREHENSIVE LOSS Year Ended December 31, 2024 2023 Net loss \$ (105,511) \$ (46,049) Other comprehensive income (loss): Foreign currency translation adjustment 674 (156) Other comprehensive income (loss) 674 (156) Comprehensive loss \$ (104,837) \$ (46,205) 101CONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY Additional Other Total Common Paid- in Treasury Accumulated Comprehensive Stockholders' Stock Capital Stock Deficit Income (Loss) Equity Balance as of January 1, 2023 \$ 3 \$ 436,269 \$ (7,536) \$ (353,729) \$ 113 \$ 75,120 Net loss--- (46,049)- (46,049) Stock- based compensation expense- 5,954--- 5,954 Issuance of common stock in connection with the Merger 1 28,390--- 28,391 Issuance of common stock- 6,106--- 6,106 Issuance of warrants- (4,500)--- (4,500) Shares repurchased as part of the Share Repurchase Program--- (3,447)- (3,447) Issuance of common stock as part of the Employee Stock Purchase Plan- 218--- 218 Issuance of common stock in exchange for consulting

services- 227— 227 Other comprehensive income— (156) (156) Balance as of December 31, 2023 \$ 4 \$ 472, 664 \$ (10, 983) \$ (399, 778) \$ (43) \$ 61, 864 Net loss— (105, 511)- (105, 511) Stock- based compensation expense- 14, 906— 14, 906 Issuance of common stock in public offering (Note B) 1 64, 516— 64, 517 Issuance of common stock in exchange for consulting services- 474— 474 Issuance of common stock as part of the Employee Stock Purchase Plan- 1, 058— 1, 058 Issuance of common stock for options exercised- 1, 684— 1, 684 Other comprehensive income— 674 674 Balance as of December 31, 2024 \$ 5 \$ 555, 302 \$ (10, 983) \$ (505, 289) \$ 631 \$ 39, 666

102CONSOLIDATED STATEMENTS OF CASH FLOWS Year Ended December 31, 2024 2023 Cash flows from operating activities: Net loss \$ (105, 511) \$ (46, 049) Adjustments to reconcile net loss to net cash used in operating activities: Stock- based compensation expense 14, 906 5, 954 Income tax expense 15, 374- Depreciation and amortization expense 6, 389 1, 006 Inventory obsolescence 5, 746- Non- cash interest expense 2, 089- Fair value adjustment related to derivative and warrant liability and CVR liability (2, 057) 98 Amortization (accretion) on investments (890)- Fair value adjustment related to investments 18 (613) Loss on sublease and disposal of property and equipment 218 157 Consulting fees paid in common stock 474 227 Gain on foreign currency exchange rates 219 (198) Change in assets and liabilities: Accounts and other receivables 6, 868 (9, 078) Prepaid expenses and other current assets (2, 228) 152 Inventories (8, 874) 206 Operating lease right- of- use assets 552 326 Other long- term assets- (5) Accounts payable and accrued expenses (3, 598) 11, 130 Discount and rebate liabilities 431 3, 231 Operating lease liabilities (626) (439) Other liabilities 835 360 Net cash used in operating activities (69, 665) (33, 535) Cash flows from investing activities: Acquisitions, net- (30, 401) Purchases of property and equipment- (296) Payment of royalty to XOMA (6, 000)- Purchases of investments (41, 161) (45, 814) Maturities of investments 25, 000 59, 121 Net cash used in investing activities (22, 161) (17, 390) Cash flows from financing activities: Proceeds from issuance of debt 58, 990 42, 431 Proceeds from insurance financing arrangements 1, 082 1, 256 Proceeds from Employee Stock Purchase Plan 1, 058 218 Proceeds from stock issuance 64, 516 6, 106 Proceeds from issuance of common stock for options exercised 1, 684- Payments of principal on insurance financing arrangements (431) (564) Repayment of debt (42, 700) (17, 531) Payment to repurchase shares as part of the Share Repurchase Program- (3, 447) Payment of deferred financing costs (2, 091)- Repayment of principal on finance lease liabilities- (5) Net cash provided by financing activities 82, 108 28, 464 Effect of exchange rate changes on cash and cash equivalents 454 44 Net decrease in cash and cash equivalents (9, 264) (22, 417) Cash and cash equivalents, beginning of period 43, 049 65, 466 Cash and cash equivalents, end of period \$ 33, 785 \$ 43, 049 Supplemental cash flow information: Cash paid for interest \$ 5, 262 \$ 456 Right- of- use assets obtained in exchange for lease liabilities— Supplemental disclosure of noncash investing activities: Issuance of common stock in connection with the Merger (Note T)- (28, 390) Supplemental disclosure of noncash financing activities: Issuance of secured promissory note for the Merger (Note T)- (5, 066) Issuance of contingent value rights for the Merger (Note T)- (8, 562) 103NOTES TO CONSOLIDATED FINANCIAL STATEMENTS A. Description of Business, Basis of Presentation, and Significant Transactions Zevra Therapeutics, Inc. (the "Company") is a commercial- stage company focused on addressing unmet needs for the treatment of rare diseases. The Company has a diverse portfolio of products and product candidates, which includes clinical stage pipeline and commercial stage assets. On September 20, 2024, the U. S. Food and Drug Administration ("FDA") approved the New Drug Application ("NDA") for MIPLYFFA™ (arimocloamol), an orally- delivered treatment for Niemann- Pick disease type C ("NPC"), which is an ultra- rare and progressive neurodegenerative disease. MIPLYFFA, the first FDA- approved treatment for NPC, is indicated for use in combination with miglustat for the treatment of neurological manifestations of NPC in adult and pediatric patients two years of age and older. In addition, the Company received a transferable rare pediatric disease priority review voucher ("PRV") in conjunction with the approval of MIPLYFFA. On February 26, 2025, the Company and Zevra Denmark A / S entered into an asset purchase agreement (the "PRV Transfer Agreement"), pursuant to which the Company agreed to sell the PRV to the buyer. Pursuant to the PRV Transfer Agreement, the buyer agreed to pay the Company \$ 150. 0 million, payable in cash, upon the closing of the sale. The PRV Transfer Agreement contains customary representations, warranties, covenants, and indemnification provisions subject to certain limitations. The transaction remains subject to customary closing conditions, including the expiration or termination of the applicable waiting period under the Hart- Scott- Rodino Antitrust Improvements Act of 1976. MIPLYFFA has also been granted orphan medicinal product designation for the treatment of NPC by the European Commission. OLPRUVA® (sodium phenylbutyrate) for oral suspension is approved by the FDA for the treatment of urea cycle disorders ("UCDs"). The Company also has a pipeline of investigational product candidates, including celirolol for the treatment of vascular Ehlers- Danlos syndrome in patients with a confirmed type III collagen mutation. KP1077 is the Company's clinical development product candidate which is being developed as a treatment for idiopathic hypersomnia ("IH"), a rare neurological sleep disorder, and narcolepsy. KP1077 is comprised solely of serdexmethylphenidate ("SDX"), the Company's proprietary prodrug of d- methylphenidate ("d- MPH"). The FDA has granted KP1077 orphan drug designation for the treatment of IH. The Company changed its name from KempPharm, Inc. to Zevra Therapeutics, Inc. effective as of February 21, 2023. On March 1, 2023, following its name change, the Company's common stock began trading on the Nasdaq Global Select Market under the ticker symbol "ZVRA". The Company prepared the consolidated financial statements in accordance with accounting principles generally accepted in the United States of America ("US GAAP") and the rules and regulations of the Securities and Exchange Commission ("SEC") and, in the Company's opinion, reflect all adjustments, including normal recurring items that are necessary. All significant intercompany accounts and transactions have been eliminated in consolidation. On August 30, 2023, the Company and Aspen Z Merger Sub, Inc., a wholly- owned subsidiary of Zevra ("Merger Sub"), entered into an Agreement and Plan of Merger (the "Merger Agreement") with Acer Therapeutics Inc. ("Acer"), a pharmaceutical company focused on development and commercialization of therapies for rare and life- threatening diseases. On November 17, 2023 (the "Closing Date"), the Company completed the acquisition of Acer. Pursuant to the Merger Agreement, on the Closing Date, Merger Sub merged with and into Acer (the "Merger"), with Acer continuing as the surviving entity and as a wholly- owned subsidiary of Zevra. In connection therewith, Zevra has also purchased Acer's secured debt from Nantahala Capital Management, LLC ("NCM"), certain of its affiliates and certain other parties (collectively with NCM, "Nantahala") through a series of transactions and Zevra agreed to provide Acer with a bridge loan facility for up to \$ 18. 0 million ("Bridge Loan"), subject to certain terms and conditions. The Merger has expanded Zevra's rare disease portfolio, as well as increased and diversified its revenues with the addition of a U. S. commercial asset, OLPRUVA, indicated for the treatment of UCDs. See Note T for further discussion related to the Merger. In connection with the Merger, Zevra and Nantahala concurrently entered into a registration rights agreement, pursuant to which Zevra agreed to file a resale registration statement with respect to the resale of the Zevra common stock issuable to Nantahala. On February 5, 2024, Zevra filed a registration statement on Form S- 3 (File No. 333- 276856) registering an aggregate of 2, 269, 721 shares of Zevra's common stock. On April 5, 2024, the Company filed an amendment to such registration statement, which was declared effective on April 8, 2024. On June 4, 2024, the Company filed a registration statement on Form S- 3 (File No. 333- 279941) (the "June 2024 Registration Statement") under which the Company may sell securities, including as may be issuable upon conversion, redemption, repurchase, exchange or exercise of securities, in one or more offerings up to a total aggregate offering price of \$ 350. 0 million, \$ 75. 0 million of which was allocated to the sale of the shares of common stock issuable under the 2024 ATM Agreement (as described further below). The registration statement was declared effective on June 13, 2024. On August 8, 2024, the Company entered into an underwriting agreement (the "Underwriting Agreement") with Cantor Fitzgerald & Co. and William Blair & Company, L. L. C., as representatives of the several underwriters named therein (collectively, the "Underwriters"), in connection with the offering, issuance and sale by the Company of 9, 230, 770 shares of the Company's common stock at a public offering price of \$ 6. 50 per share, pursuant to the June 2024 Registration Statement and a related prospectus supplement dated August 8, 2024, filed with the SEC (the "August 2024 Offering"). Under the terms of the Underwriting Agreement, the Company also granted the Underwriters an option exercisable for 30 days to purchase up to an additional 1, 384, 615 shares of its Common Stock at the public offering price, less underwriting discounts and commissions, which the Underwriters exercised in full on August 9, 2024. The August 2024 Offering closed on August 12, 2024. Total shares issued were 10, 615, 385. Net proceeds from the offering were approximately \$ 64. 5 million, after deducting underwriting discounts and commissions and estimated offering expenses payable by the Company. The Company intends to use the net proceeds of the offering to support the commercial launch activities for MIPLYFFA, continued commercial support for OLPRUVA and the continued development of celirolol and KP1077 through potential NDA filings and other general corporate purposes. On July 12, 2024, the Company entered into an equity distribution agreement (the "2024 ATM Agreement") with Citizens JMP Securities LLC ("Citizens JMP") under which the Company may offer and sell, from time to time at its sole discretion, shares of its common stock having an aggregate offering price of up to \$ 75. 0 million through Citizens JMP as its sales agent. The issuance and sale, if any, of common stock by the Company under the 2024 ATM Agreement will be made pursuant to the June 2024 Registration Statement, the accompanying prospectus, and the related prospectus supplement dated July 12, 2024. Citizens JMP may sell the common stock by any method permitted by law deemed to be an "at the market offering" as defined in Rule 415 of the Securities Act. Citizens JMP will use commercially reasonable efforts to sell the common stock from time to time, based upon instructions from the Company (including any price, time or size limits or other customary parameters or conditions the Company may impose). The Company will pay Citizens JMP a commission equal to 3. 0 % in the aggregate of the gross sales proceeds of any common stock sold through Citizens JMP under the 2024 ATM Agreement. As of December 31, 2024, no shares have been issued or sold under the 2024 ATM Agreement. On July 2, 2021, the Company entered into an equity distribution agreement (the "2021 ATM Agreement") with JMP Securities LLC ("JMP") and RBC Capital Markets, LLC ("RBCCM") under which the Company may offer and sell, from time to time at its sole discretion, shares of its common stock having an aggregate offering price of up to \$ 75. 0 million through JMP and RBCCM as its sales agents. The issuance and sale, if any, of common stock by the Company under the 2021 ATM Agreement was made pursuant to the registration statement on Form S- 3 (File No. 333- 257661) which was declared effective on July 12, 2021, the accompanying prospectus, and the related prospectus supplement dated July 12, 2021. The 2021 ATM Agreement terminated on July 11, 2024, and no shares had been issued or sold under the 2021 ATM Agreement as of the termination date. Reclassifications Certain reclassifications were made to the 2023 consolidated financial statements to conform to the classifications used in 2024. These reclassifications had no impact on the consolidated net loss, changes in stockholder's equity, or cash flows previously reported. B. Summary of Significant Accounting Policies Use of Estimates The preparation of these consolidated financial statements in conformity with U. S. GAAP requires the Company to make estimates and assumptions that affect the amounts reported in the consolidated financial statements and accompanying notes. Actual results could differ from those estimates. On an ongoing basis, the Company evaluates its estimates and assumptions, including those related to revenue recognition, the useful lives of property and equipment, the recoverability of long- lived assets, the incremental borrowing rate for leases, and assumptions used for purposes of determining stock- based compensation, income taxes, the fair value of the derivative and warrant liability and discount and rebate liabilities, among others. The Company bases its estimates on historical experience and on various other assumptions that it believes to be reasonable, the results of which form the basis for making judgments about the carrying value of assets and liabilities. Concentration of Credit Risk Financial instruments that potentially expose the Company to concentrations of credit risk consist principally of cash on deposit and investments with

multiple financial institutions, the balances of which frequently exceed insured limits, and accounts receivable, which are concentrated amongst a limited number of customers. Cash and Cash Equivalents The Company considers any highly liquid investments with an original maturity of three months or less to be cash equivalents. The Company maintains investment securities that are classified as available-for-sale securities for which the Company has elected the fair value option under Financial Accounting Standards Board ("FASB") Accounting Standards Codification ("ASC") Topic 825, Financial Instruments. As such, these securities are carried at fair value with unrealized gains and losses included in fair value adjustment related to investments on the consolidated statements of operations. The securities primarily consist of U. S. Treasury securities and U. S. government-sponsored agency securities and are included in securities at fair value in the consolidated balance sheets. As of December 31, 2024, and 2023, the Company held securities with an aggregate fair value of \$ 41. 7 million and \$ 24. 7 million, respectively, that contained aggregate unrealized gains of approximately \$ 18, 000 and \$ 0. 6 million, respectively. For securities held at December 31, 2024, \$ 35. 7 million mature within one year and \$ 6. 0 million mature in one to five years. Applying fair value accounting to these debt securities more accurately represents the Company's investment strategy due to the fact that excess cash is currently being invested for the purpose of funding future operations. Interest income is recognized as earned using an effective yield method giving effect to the amortization of premium and accretion of discount and is based on the economic life of the securities. Interest income is included in Interest and other income, net in the consolidated statements of operations. Variable Interest Entities The primary beneficiary of a variable interest entity ("VIE") is required to consolidate the assets and liabilities of the VIE. When the Company obtains a variable interest in another entity, it assesses at the inception of the relationship and upon occurrence of certain significant events whether the entity is a VIE, and if so, whether the Company is the primary beneficiary of the VIE based on its power to direct the activities of the VIE that most significantly impact the VIE's economic performance and the Company's obligation to absorb losses or the rights to receive benefits from the VIE that could potentially be significant to the VIE. To assess whether the Company has the power to direct the activities of the VIE that most significantly impact the VIE's economic performance, the Company considers all the facts and circumstances, including the Company's role in establishing the VIE and the Company's ongoing rights and responsibilities. The assessment includes identifying the activities that most significantly impact the VIE's economic performance and identifying which party, if any, has the power to direct those activities. In general, the parties that make the most significant decisions affecting the VIE (management and representation on the Board of Directors) are deemed to have the power to direct the activities of a VIE. To assess whether the Company has the obligation to absorb losses of the VIE or the rights to receive benefits from the VIE that could potentially be significant to the VIE, the Company considers all of its economic interests that are deemed to be variable interests in the VIE. This assessment requires judgement in determining whether these interests, in the aggregate, are considered potentially significant to the VIE. As of December 31, 2024, and 2023, the Company identified Acer to be the Company's sole interest in a VIE (Note T). As Zevra is the final decision maker for all of Acer's research, development, and commercialization of drug candidates that it is producing, the Company directs the activities of Acer that most significantly impact its performance. Therefore, the Company is the primary beneficiary of this VIE for accounting purposes. Goodwill and Intangible Assets Goodwill represents the excess of the consideration transferred over the fair value of the net assets acquired when accounted for using the acquisition method of accounting for business combinations. Goodwill is not amortized but is evaluated for impairment within the Company's single reporting unit on an annual basis, during the fourth quarter, or more frequently if an event occurs or circumstances change that would more-likely-than-not reduce the fair value of the Company's reporting unit below its carrying amount. The Company establishes its reporting units based on the organizational structure and has determined it has one reporting unit. In performing its analysis, in accordance with ASC 350, the Company has the option to first assess qualitatively whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount, including goodwill. In performing qualitative assessments, the Company considers, among other factors, macroeconomic conditions, the Company's overall financial performance (including, but not limited to, comparisons to prior periods, current period internal expectations, and comparable peer companies), broader industry and market considerations, and the trading price performance of the Company's common stock. The Company's goodwill balance was \$ 4. 7 million as of December 31, 2024, and 2023. As of December 31, 2024, and 2023, the Company completed its annual qualitative assessment under ASC 350 to determine whether the existence of events or circumstances indicated that it was more likely than not that the fair value of its reporting unit was less than its respective carrying value. The Company concluded that based on the relevant events and circumstances, it was more likely than not that the reporting unit's fair value exceeded its related carrying value and therefore no quantitative assessment was required. No goodwill impairment charges were recorded for the year ended December 31, 2024, or 2023. Acquired in-process research and development ("IPR & D") that the Company acquires in conjunction with the acquisition of a business represents the fair value assigned to incomplete research projects which, at the time of acquisition, have not reached technological feasibility. The amounts are capitalized and are accounted for as indefinite-lived intangible assets, subject to impairment testing until completion or abandonment of the projects. Upon successful completion of each IPR & D project, the Company will make a determination as to the then-useful life of the intangible asset, generally determined by the period in which the substantial majority of the cash flows are expected to be generated and begin amortization. The Company evaluates IPR & D for impairment on an annual basis, during the fourth quarter, or more frequently if impairment indicators exist. The Company's IPR & D balance was \$ 2. 0 million as of December 31, 2024, and 2023. No IPR & D impairment charges were recognized for the years ended December 31, 2024, or 2023. As of December 31, 2024, and 2023, the Company had a definite-lived intangible asset, net related to the acquisition of OLPRUVA as a result of the Merger of \$ 61. 3 million and \$ 67. 2 million, respectively. This asset is amortized on a straight-line basis over the OLPRUVA patent life of thirteen years. Amortization expense is recorded as intangible asset amortization in the consolidated statements of operations and was \$ 5. 9 million and \$ 0. 8 million for the years ended December 31, 2024, and 2023, respectively. The Company reviews the estimated useful lives of its intangible assets on an ongoing basis (Note S). In connection with the XOMA License Agreement, the Company paid XOMA a regulatory milestone payment of \$ 6. 0 million upon approval of MIPLYFFA in September 2024, which is included in intangible assets, net in the consolidated balance sheet. This definite-lived intangible asset is amortized on a straight-line basis over the MIPLYFFA patent life of approximately five years and is reviewed periodically for impairment. Amortization expense is recorded as intangible asset amortization in the consolidated statement of operations and was \$ 0. 3 million for the year ended December 31, 2024. Property and Equipment The Company records property and equipment at cost less accumulated depreciation and amortization. Costs of renewals and improvements that extend the useful lives of the assets are capitalized. Maintenance and repairs are expensed as incurred. Depreciation is determined on a straight-line basis over the estimated useful lives of the assets, which generally range from three to ten years. Leasehold improvements are amortized over the shorter of the useful life of the asset or the term of the related lease. Upon retirement or disposition of assets, the costs and related accumulated depreciation and amortization are removed from the accounts with the resulting gains or losses, if any, reflected in the consolidated statements of operations. Impairment of Long-Lived Assets Long-lived assets to be held and used are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amounts of the assets may not be recoverable. When such events occur, the Company compares the carrying amounts of the assets to their undiscounted expected future cash flows. If the undiscounted cash flows are insufficient to recover the carrying values, an impairment loss is recorded for the difference between the carrying values and fair values of the asset. No such impairment occurred for the years ended December 31, 2024, or 2023. Product Revenues, Net Licensing Agreements The terms of the Company's licensing agreements typically include one or more of the following: (i) upfront fees; (ii) milestone payments related to the achievement of development, regulatory, or commercial goals; and (iii) royalties on net sales of licensed products. Each of these payments may result in licensing revenues. As part of the accounting for these agreements, the Company must develop estimates and assumptions that require judgment to determine the underlying stand-alone selling price for each performance obligation which determines how the transaction price is allocated among the performance obligations. Generally, the estimation of the stand-alone selling price may include such estimates as independent evidence of market price, forecasted revenues or costs, development timelines, discount rates, and probability of regulatory success. The Company evaluates each performance obligation to determine if they can be satisfied at a point in time or over time, and it measures the services delivered to the licensee which are periodically reviewed based on the progress of the related program. The effect of any change made to an estimated input component and, therefore revenue or expense recognized, would be recorded as a change in estimate. In addition, variable consideration (e. g., milestone payments) must be evaluated to determine if it is constrained and, therefore, excluded from the transaction price. Up-front Fees: If a license to the Company's intellectual property is determined to be distinct from the other performance obligations identified in the arrangement, the Company recognizes revenues from the transaction price allocated to the license when the license is transferred to the licensee and the licensee is able to use and benefit from the license. For licenses that are bundled with other promises, the Company utilizes judgment to assess the nature of the combined performance obligation to determine whether the combined performance obligation is satisfied over time or at a point in time. Milestone Payments: At the inception of each arrangement that includes milestone payments (variable consideration), the Company evaluates whether the milestones are considered probable of being reached and estimates the amount to be included in the transaction price using the most likely amount method. If it is probable that a significant revenue reversal would not occur, the associated milestone value is included in the transaction price. Milestone payments that are not within the Company's or the licensee's control, such as non-operational developmental and regulatory approvals, are generally not considered probable of being achieved until those approvals are received. At the end of each reporting period, the Company re-evaluates the probability of achievement of milestones that are within its or the licensee's control, such as operational developmental milestones and any related constraint, and if necessary, adjusts its estimate of the overall transaction price. Any such adjustments are recorded on a cumulative catch-up basis, which would affect collaboration revenues and earnings in the period of adjustment. Revisions to the Company's estimate of the transaction price may also result in negative licensing revenues and earnings in the period of adjustment. Arimoclolol Expanded Access Program Net revenue includes revenue from the sale of arimoclolol for the treatment of NPC under the remunerated expanded access compassionate use program in France, Accès Compassionnel ("French AC"). An expanded access compassionate use program is a program giving specific patients access to a drug, which is not yet approved for commercial sale. Only drugs targeting serious or rare indications and for which there is currently no appropriate treatment are considered for expanded access compassionate use programs. Further, to be considered for the expanded access compassionate use program, the drug must have proven efficacy and safety and must either be undergoing price negotiations or seeking marketing approval. In accordance with ASC 606, the Company recognizes revenue when fulfilling its performance obligation under the Arimoclolol Expanded Access Program ("Arimoclolol EAP") by transferring control of promised goods or services to its customer, in an amount that reflects the consideration that the Company expects to receive in exchange for those goods or services. In determining when the customer obtains control of the product, the Company considers certain indicators, including whether the Company has a present right to payment from the customer, whether title and/or significant risks and rewards of ownership have transferred to the customer and whether customer acceptance has been received. Revenue is recognized net of sales

deductions, including discounts, rebates, applicable distributor fees, and revenue-based taxes. The French Health Authorities and the manufacturer have agreed to a price for sales under the French AC, but the final transaction price depends on the terms and conditions in the contracts with the French Health Authorities, following market approval. Any excess in the price charged by the manufacturer compared to the price agreed with the health authorities once the drug product is approved in France must be repaid. The repayment is considered in the clawback liability (rebate). An estimate of net revenue and clawback liability are recognized using the 'expected value' method. Accounting for net revenue and clawback liability requires determination of the most appropriate method for the expected final transaction price. This estimate also requires assumptions with respect to inputs into the method, including current pricing of comparable marketed products within the rare disease area in France. Management has considered the expected final sales price as well as the price of similar drug products. The Company is operating within a rare disease therapeutic area where there is unmet treatment need and hence a limited number of comparable commercialized drug products. The limited available relevant market information for directly comparable commercialized drugs within rare disease increases the uncertainty in management's estimate. Acquired IPR & D and Milestones Expenses In an asset acquisition, payments incurred prior to regulatory approval to acquire rights to in-process R & D projects are expensed as acquired IPR & D and milestones expense in the consolidated statements of earnings unless the project has an alternative future use. These costs include upfront and development milestone payments related to R & D collaborations, licensing arrangements, or other asset acquisitions that provide rights to develop, manufacture and / or sell pharmaceutical products. Where contingent development milestone payments are due to third parties, prior to regulatory approval, the payment obligations are expensed when the milestone results are achieved. Regulatory and commercial milestone payments made to third parties subsequent to regulatory approval are capitalized as intangible assets and amortized to intangible asset amortization over the remaining useful life of the related product. The value of inventories is recorded at net realizable value. The Company determines the cost of its other inventories, which includes amounts related to materials and manufacturing overhead, on a first-in, first-out basis. Inventories that are not expected to be sold within 12 months are classified as Inventories, noncurrent. The Company may scale-up and make commercial quantities of its product candidates prior to the date it anticipates that such product will receive final regulatory approval. The scale-up and commercial production of pre-launch inventory involves the risk that such products may not be approved for marketing on a timely basis, or ever. This risk notwithstanding, the Company may scale-up and build pre-launch inventory of product that have not received final regulatory approval when the Company believes such action is appropriate in relation to the commercial value of the product launch opportunity. We capitalize inventory costs associated with our products prior to regulatory approval when, based on management's judgment, future commercialization is considered probable and the future economic benefit is expected to be realized; otherwise, such costs are expensed as research and development. The determination to capitalize inventory costs is based on various factors, including status and expectations of the regulatory approval process, any known safety or efficacy concerns, potential labeling restrictions, and any other impediments to obtaining regulatory approval. We had no pre-approval inventory on our consolidated balance sheet as of December 31, 2024, or 2023. Inventory used in clinical trials is also expensed as research and development expense, when selected for such use. Inventory that can be used in either the production of clinical or commercial products is expensed as research and development costs when identified for use in a clinical manufacturing campaign. The cost of finished goods inventory that is shipped to a customer to support the Company's patient assistance programs is expensed when those shipments take place. As of December 31, 2024, and 2023, the Company did not have pre-launch inventory that qualified for capitalization. The Company performs an assessment of the recoverability of capitalized inventory during each reporting period and writes down any excess and obsolete inventory to its net realizable value in the period in which the impairment is first identified. Such impairment charges, should they occur, are recorded as a component of cost of product revenue in the statements of operations and comprehensive loss. The determination of whether inventory costs will be realizable requires the use of estimates by management. If actual market conditions are less favorable than projected by management, additional write-downs of inventory may be required. Additionally, the Company's product is subject to strict quality control and monitoring that it performs throughout the manufacturing process. In the event that certain batches or units of product do not meet quality specifications, the Company will record a charge to cost of product revenue, to write-down any unsaleable inventory to its estimated net realizable value. For the year ended December 31, 2024, the Company recognized a charge of approximately \$ 5.7 million related to write-downs for unsaleable inventory. No such write-downs were recognized for the year ended December 31, 2023. The components of cost of product revenue are royalties and expenses directly attributable to revenue. To date, the Company has generated revenue from product sales of MIPLYFFA and OLPRUVA, the AZSTARYS License Agreement, sales of arimoclomol under the EAP, reimbursement of out-of-pocket third-party costs and the performance of consulting services. In connection with the AZSTARYS License Agreement, the Company pays Aquestive a royalty equal to 10 % of all regulatory milestone and royalty payments. In addition, the Company capitalized incremental costs directly attributable to the AZSTARYS License Agreement. These costs are amortized to royalties and contract costs as revenue is recognized. Under the XOMA License Agreement, XOMA is entitled to a mid-single digit percentage royalty with respect to net sales of MIPLYFFA. In addition, the Company also pays a low-single digit percentage royalty to Kansas University Center for Technology Commercialization, Inc. with respect to net sales of MIPLYFFA. Accounts and Other Receivables Accounts and other receivables consist of receivables from MIPLYFFA and OLPRUVA product sales, receivables under the AZSTARYS License Agreement and the EAP, and income tax receivables and other receivables due to the Company. Receivables under the AZSTARYS License Agreement are recorded for amounts due to the Company related to reimbursable third-party costs as well as milestones and royalties on product sales. Receivables under the EAP are recorded for product sales under the French AC. The Company provides reserves against receivables for estimated losses that may result from a customer's inability to pay. Receivables are evaluated to determine if any reserve or allowance should be recorded based on consideration of the current economic environment, expectations of future economic conditions, specific circumstances and the Company's own historical collection experience. Amounts determined to be uncollectible are charged or written-off against the reserve. Major components of research and development costs include cash compensation, stock-based compensation, depreciation and amortization expense on research and development property and equipment, costs of preclinical studies, clinical trials and related clinical manufacturing, costs of drug development, costs of materials and supplies, facilities cost, overhead costs, regulatory and compliance costs, and fees paid to consultants and other entities that conduct certain research and development activities on the Company's behalf. Costs incurred in research and development are expensed as incurred. The Company records nonrefundable advance payments it makes for future research and development activities as prepaid expenses. Prepaid expenses are recognized as expense in the statements of operations as the Company receives the related goods or services. The Company enters into contractual agreements with third-party vendors who provide research and development, manufacturing, and other services in the ordinary course of business. Some of these contracts are subject to milestone-based invoicing and services are completed over an extended period of time. The Company records liabilities under these contractual commitments when an obligation has been incurred. This accrual process involves reviewing open contracts and purchase orders, communicating with the applicable personnel to identify services that have been performed and estimating the level of service performed and the associated cost when the Company has not yet been invoiced or otherwise notified of actual cost. The majority of the service providers invoice the Company monthly in arrears for services performed. The Company makes estimates of the accrued expenses as of each balance sheet date based on the facts and circumstances known. The Company periodically confirms the accuracy of the estimates with the service providers and make adjustments, if necessary. Patent Costs Patent costs, including related legal costs, are expensed as incurred and recorded within general and administrative expenses on the statements of operations. Income Taxes The Company recognizes deferred tax assets and liabilities for the expected future tax consequences of temporary differences between the financial reporting and tax basis of assets and liabilities, as well as for operating loss and tax credit carryforwards. Deferred tax assets and liabilities are measured using the tax rates that are expected to apply to taxable income for the years in which those tax assets and liabilities are expected to be realized or settled. Valuation allowances are recorded to reduce deferred tax assets to the amount the Company believes is more likely than not to be realized. Uncertain tax positions are recognized only when the Company believes it is more likely than not that the tax position will be upheld on examination by the taxing authorities based on the merits of the position. The Company recognizes interest and penalties, if any, related to unrecognized income tax uncertainties in income tax expense. The Company did not have any accrued interest or penalties associated with uncertain tax positions as of December 31, 2024 and 2023. The Company files income tax returns in the United States for federal and various state jurisdictions. With few exceptions, the Company is no longer subject to U. S. federal and state and local income tax examinations for years prior to 2015, although carryforward attributes that were generated prior to 2017 may still be adjusted upon examination by the Internal Revenue Service if used in a future period. No income tax returns are currently under examination by taxing authorities. On December 22, 2017, the U. S. government enacted H. R. 1, "An Act to provide for reconciliation pursuant to titles II and V of the concurrent resolution on the budget for fiscal year 2018" ("Tax Act"). Effective January 1, 2018, the Tax Act provides for a new global intangible low-taxed income ("GILTI") provision. Under the GILTI provision, certain foreign subsidiary earnings in excess of an allowable return on the foreign subsidiary's tangible assets are included in U. S. taxable income. The Company has not recorded any deferred taxes for future GILTI inclusions as any future inclusions are expected to be treated as a period expense and offset by net operating loss carryforwards in the U. S. The Company measures and recognizes compensation expense for all stock-based payment awards made to employees, officers and directors based on the estimated fair values of the awards as of the grant date. The Company records the value of the portion of the award that is ultimately expected to vest as expense over the requisite service period. The Company also accounts for equity instruments issued to non-employees using a fair value approach under Accounting Standards Codification ("ASC") subtopic 505-50. The Company values equity instruments and stock options granted using the Black-Scholes option pricing model. Basic and Diluted Net Loss per Share of Common Stock The Company uses the two-class method to compute net loss per common share because the Company has issued securities, other than common stock, that contractually entitle the holders to participate in dividends and earnings of the Company. The two-class method requires earnings for the period to be allocated between common stock and participating securities based upon their respective rights to receive distributed and undistributed earnings. Holders of each series of the Company's convertible preferred stock and select warrants are entitled to participate in distributions, when and if declared by the board of directors, that are made to common stockholders and, as a result, are considered participating securities. Segment and Geographic Information Operating segments are defined as components of an enterprise (business activity from which it earns revenue and incurs expenses) for which discrete financial information is available and regularly reviewed by the chief operating decision maker ("CODM") in deciding how to allocate resources and in assessing performance. The Company's CODM is its Chief Executive Officer. The Company views its operations and manages its business as a single operating and reporting segment. The Company holds long-lived assets in the United States of \$ 13.4 million and \$ 10.9 million as of December 31, 2024 and 2023 respectively. The Company holds long-lived assets in Europe of \$ 0.5 million as of both December 31, 2024 and 2023. Assets and liabilities are translated into the reporting currency using the exchange rates in effect on the consolidated

balance sheet dates. Equity accounts are translated at historical rates, except for the change in retained earnings during the year, which is the result of the income statement translation process. Revenue and expense accounts are translated using the weighted average exchange rate during the period. The cumulative translation adjustments associated with the net assets of foreign subsidiaries are recorded in accumulated other comprehensive income / loss in the accompanying consolidated statements of stockholders' equity. Debt Issuance Costs Debt issuance costs incurred in connection with financing arrangements are recorded as a reduction of the related debt on the balance sheet and amortized over the life of the respective financing arrangement using the effective interest method. The Company accounts for warrants as either equity- classified or liability- classified instruments based on an assessment of the warrant's specific terms and applicable authoritative guidance in FASB ASC Topic 480, Distinguishing Liabilities from Equity (ASC 480) and FASB ASC Topic 815, Derivatives and Hedging (ASC 815). The assessment considers whether the warrants are freestanding financial instruments pursuant to ASC 480, meet the definition of a liability pursuant to ASC 480, and whether the warrants meet all of the requirements for equity classification under ASC 815, including whether the warrants are indexed to the Company's own stock and whether the warrant holders could potentially require " net cash settlement " in a circumstance outside of the company's control, among other conditions for equity classification. This assessment, which requires the use of professional judgment, is conducted at the time of warrant issuance and as of each subsequent quarterly period end date while the warrants are outstanding. New Accounting Pronouncements Recently Adopted Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures In November 2023, the FASB issued Accounting Standards Update (" ASU") No. 2023- 07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures. The standard expands reportable segment disclosure requirements for public business entities primarily through expanded disclosures about significant segment expenses that are regularly provided to the chief operating decision maker (" CODM") and included within each reported measure of segment profit and loss. The Company adopted this standard for its fiscal year 2024 annual financial statements and have applied this standard retrospectively for all prior periods presented in the financial statements. See Note C for further information. New Accounting Pronouncements Not Yet Adopted Income Taxes (Topic 740): Improvements to Income Tax Disclosures In December 2023, the FASB issued ASU No. 2023- 09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures, which expands disclosures in an entity's income tax rate reconciliation table and disclosures regarding cash taxes paid both in the U. S. and foreign jurisdictions. The update will be effective for annual periods beginning after December 15, 2024. The Company is currently evaluating the impact that this guidance will have on the presentation of its consolidated financial statements and accompanying notes. C. Segment Information Zevra manages its business activities on a consolidated basis and operates as a single operating segment dedicated to the research and development, manufacturing, commercialization and sale of innovative medicines and therapies. The Company primarily derives its revenue from reimbursements received from the EAP, AZSTARYS License Agreement, OLPRUVA product sales, MIPLYFFA product sales, and consulting arrangements. The accounting policies of the segment are the same as those described in Note B. Zevra's CODM is the Company's Chief Executive Officer, Neil F. McFarlane. The CODM uses net loss, as reported in the Company's Consolidated Statements of Comprehensive Loss, in evaluating performance of its segment and determining how to allocate resources of the Company as a whole, including investing in its research and development, commercialization efforts, and acquisition strategy. The CODM does not review assets in evaluating the results of the segment, and therefore, such information is not presented. The following table presents the operating results of the Company's segment: December 31, 2024 December 31, 2023 Total revenues \$ 23, 612 \$ 27, 461 Less significant segment expenses: Research and development directly identified to programs 22, 532 30, 083 Research and development not directly identified to programs 19, 562 9, 723 Selling, general and administrative directly identified to programs 18, 094 7, 770 Selling, general and administrative not directly identified to programs 36, 775 26, 544 Other segment items: Income tax expense 15, 371- Interest income (3, 159) (4, 527) Depreciation and amortization expense 6, 389 1, 006 Interest expense 7, 351 1, 501 Other expense, net (a) 6, 208 1, 410 Segment net loss \$ (105, 511) \$ (46, 049) foreign currency exchange gains and losses, cost of product revenue (excluding intangible asset amortization), fair value adjustment related to warrant and CVR liabilities, fair value adjustment related to investments, and other overhead expense. D. Inventories The components of inventory are summarized as follows (in thousands): December 31, 2024 December 31, 2023 Raw Materials \$ 7, 928 \$ 2, 938 Work in progress 3, 260 1, 884 Finished goods 1, 781 5, 019 Total inventories \$ 12, 969 \$ 9, 841 E. Accounts and Other Receivables Accounts and other receivables consist of the following (in thousands): December 31, 2024 2023 Accounts receivable \$ 10, 176 \$ 16, 119 Other receivables 333 1, 258 Total accounts and other receivables \$ 10, 509 \$ 17, 377 F. Prepaid Expenses and Other Current Assets Prepaid expenses and other current assets consist of the following (in thousands): December 31, 2024 2023 Prepaid insurance \$ 1, 037 \$ 1, 172 Other prepaid expenses and current assets 3, 015 652 Total prepaid expenses and other current assets \$ 4, 052 \$ 1, 824 G. Property and Equipment Property and equipment consists of the following (in thousands): December 31, 2024 2023 Laboratory equipment \$ 463 \$ 711 Furniture and office equipment 200 157 Computers and hardware 701 643 Leasehold improvements 710 710 Finance lease right- of- use assets 8 149 Total property and equipment 2, 082 2, 370 Less: accumulated depreciation and amortization (1, 726) (1, 634) Property and equipment, net \$ 356 \$ 736 The estimated useful lives of property and equipment are as follows: Useful Life Asset Category (in years) Laboratory equipment 10 Furniture and office equipment 5- 10 Computers and hardware 3- 7 Leasehold improvements 9 Depreciation and amortization expense, including amounts pertaining to assets held under finance leases, was approximately \$ 208, 000 and \$ 245, 000 for the years ended December 31, 2024 and 2023, respectively. H. Accounts Payable and Accrued Expenses Accounts payable and accrued expenses consist of the following (in thousands): December 31, 2024 2023 Accrued payroll 6, 126 10, 671 Accrued professional fees 863 675 Accounts payable 13, 075 13, 987 Other accrued expenses 5, 392 3, 070 Total accounts payable and accrued expenses \$ 25, 456 \$ 28, 403 I. Debt Obligations Secured Promissory Note In connection with the Merger (Note T), on August 30, 2023, the Company and Nantahala, entered into a secured promissory note payable by Zevra to Nantahala in the original principal amount of \$ 5. 0 million (the " Nantahala Note"). The Nantahala Note initially bore interest at 9. 0 % per annum, payable quarterly in arrears in cash. The interest rate increased to 12. 0 % per annum effective March 1, 2024, as the Nantahala Note remained unpaid six months from its issue date. The additional 3. 0 % interest would have been paid in shares of Zevra's common stock based on the volume weighted average trading price (" VWAP") of Zevra's common stock during the twenty consecutive trading days ending on the date before such interest payment date. Beginning on the first interest payment date following the second anniversary of the Nantahala Note, and on each interest payment date thereafter, Zevra was required to make \$ 0. 6 million amortization payments on the Nantahala Note until it was paid in full. All principal and unpaid interest on the Nantahala Note would have been due on August 30, 2026, the third anniversary of the Nantahala Note. Zevra was entitled to prepay the Nantahala Note at any time without penalty. The Nantahala Note was secured by Zevra's interest in (i) the loan assets under the Loan Purchase Agreement described in Note T; (ii) the note assets under the Note Purchase Agreement described in Note T; (iii) the Bridge Loan described in Note T; and (iv) the proceeds therefrom. The Company used the proceeds from the Nantahala Note, along with \$ 12. 0 million in cash and 98, 683 shares of Zevra's common stock, to acquire Acer's term loans, as more fully described in Note T. In April 2024, the Nantahala Note was repaid in full and terminated. At the time of repayment, Nantahala elected to receive a cash payment in lieu of shares of Zevra's common stock in exchange for the additional 3. 0 % interest accrued for the period from March 1, 2024, through April 5, 2024. On January 26, 2023, the Company and Wells Fargo, as lender, entered into a revolving margin account agreement. The Company's investments were used as collateral for the loan and the amount the Company was able to borrow was limited to 80- 90 % of its outstanding investment balance held with Wells Fargo. The margin account bore interest at the Prime rate minus 225 basis- points. As of December 31, 2023, \$ 37. 7 million was outstanding under the margin account. The margin loan was included in current liabilities as of December 31, 2023, as the Company expected the outstanding balance to be due and payable in 2024 based on the anticipated level of investment balance expected to be available over the course of fiscal year 2024 to meet the Collateral Requirement. In April 2024, the Company repaid the outstanding balance under the margin account with Wells Fargo, and upon such repayment, the margin capabilities were removed from the account. Term Loans On April 5, 2024 (the " Term Loans Closing Date"), the Company entered into a credit agreement (the " Credit Agreement ") with HCR Stafford Fund II, L. P., HCR Potomac Fund II, L. P., and Perceptive Credit Holdings IV, LP (collectively, the " Lenders "), and Alter Domus (US) LLC, as administrative agent (the " Administrative Agent "). Under the terms of the Credit Agreement, the Lenders provided a senior secured loan facility to the Company in the aggregate principal amount of \$ 100. 0 million, which is divided into three tranches as follows: (i) \$ 60. 0 million which was funded in full on the Term Loans Closing Date; (ii) \$ 20. 0 million which is available to the Company in up to two drawings, each in an amount not to exceed \$ 10. 0 million, at the Company's option until 18 months following the Term Loans Closing Date; and (iii) \$ 20. 0 million which is available to the Company upon approval by the FDA of the NDA for MIPLYFFA for the treatment of NPC, at the Company's option until December 31, 2024 (collectively, the " Term Loans "). The principal amount of the Term Loans outstanding (the " Outstanding Principal Amount ") will bear interest at a rate equal to 3- Month Term SOFR plus 7. 00 % per annum. If the net product sales for the calendar year ending December 31, 2025, exceed \$ 100. 0 million, the Outstanding Principal Amount will bear interest at 3- Month Term SOFR plus 6. 50 % per annum. In all cases, the 3- Month Term SOFR rate will be subject to a floor of 4. 00 % per annum. Interest will be payable quarterly in arrears on the last day of each calendar quarter. The Company has the option to pay up to 25 % of the interest in- kind beginning on the Term Loans Closing Date, through and including June 30, 2026. The Company has recognized approximately \$ 1. 4 million of interest- in- kind as of December 31, 2024, which is included in long- term debt in the consolidated balance sheet. The Term Loans will mature on the fifth anniversary of the Term Loans Closing Date. In connection with the Credit Agreement, the Company incurred approximately \$ 2. 2 million of costs, which primarily consisted of underwriting, legal and other professional fees, and are included as a reduction to the carrying amount of the related debt liability and are deferred and amortized over the remaining life of the financing using the effective interest method. The Credit Agreement contains customary affirmative and negative covenants by the Company, which among other things, will require the Company to provide certain financial reports to the Lenders within 60 days after the end of each of the first three fiscal quarters of each fiscal year and 105 days after the end of each fiscal year, meet certain minimum net product sales amounts, and limit the ability of the Company to incur or guarantee additional indebtedness, engage in certain transactions, and effect a consolidation or merger without consent. In addition, as long as the line of credit remains active, the Company must maintain a minimum cash balance of \$ 20. 0 million to ensure the Company can meet its immediate capital needs. The obligations of the Company under the Credit Agreement may be accelerated upon customary events of default, including non- payment of principal, interest, fees and other amounts, covenant defaults, insolvency, material judgments, or inaccuracy of representations and warranties. The Term Loans are secured by a first priority perfected lien on, and security interest in, substantially all current and future assets of the Company. The proceeds of the Term Loans were used to refinance certain existing indebtedness of the Company and its subsidiaries. The Company will use the remaining proceeds to pay fees and expenses related to the debt financing and fund

the development and commercialization of OLPRUVA and MIPLYFFA. Long-term debt consisted of the following (in thousands): December 31, 2024 December 31, 2023 Notes payable \$ 61, 552 \$ — Secured promissory note — 5, 000 Unamortized original issue (discount) premium (921) 148 Less: debt issuance costs (1, 127) (82) \$ 59, 504 \$ 5, 066 Future minimum principal payments under the secured promissory note as of December 31, 2024, were as follows (in thousands): Year Ending December 31, 2024 December 31, 2024 2025 \$ — 2026 — 2027 — 2028 — 2029 61, 552 Total minimum payments 61, 552 Less: unamortized debt discount and debt issuance costs (2, 048) Long-term debt \$ 59, 504 J. Revenue, net The Company entered into a Collaboration and License Agreement (the “AZSTARYS License Agreement”) with Commave Therapeutics SA (formerly known as Boston Pharmaceutical S. A.) (“Commave”), an affiliate of Gurnet Point Capital, L. P., dated September 3, 2019. Under the AZSTARYS License Agreement, as amended, the Company granted to Commave an exclusive, worldwide license to develop, manufacture and commercialize the Company’s product candidates containing SDX and d-MPH, including AZSTARYS, or any other product candidates containing SDX and developed to treat ADHD or any other central nervous system disorder. Corium Inc. was tasked by Commave to lead all commercialization activities for AZSTARYS under the AZSTARYS License Agreement. Pursuant to the AZSTARYS License Agreement, Commave agreed to pay milestone payments up to an aggregate of \$ 590. 0 million upon the occurrence of specified regulatory milestones related to AZSTARYS, additional fixed payments upon the achievement of specified U. S. sales milestones, and quarterly, tiered royalty payments based on a range of percentages of net sales (as defined in the AZSTARYS License Agreement). Commave is obligated to make such royalty payments on a product-by-product basis until expiration of the royalty term for the applicable product. The Company concluded that these regulatory milestones, sales milestones and royalty payments each contain a significant uncertainty associated with a future event. As such, these milestone and royalty payments are constrained at contract inception and are not included in the transaction price as the Company could not conclude that it is probable a significant reversal in the amount of cumulative revenue recognized will not occur surrounding these milestone payments. At the end of each reporting period, the Company updates its assessment of whether the milestone and royalty payments are constrained by considering both the likelihood and magnitude of the potential revenue reversal. For the year ended December 31, 2024, the Company recognized \$ 4. 3 million of revenue under the AZSTARYS License Agreement, respectively, primarily related to royalties. For the year ended December 31, 2023, the Company recognized revenue under the AZSTARYS License Agreement of \$ 18. 5 million, which includes \$ 15. 0 million in net sales milestone payments earned during the year then ended. There was no deferred revenue related to this agreement as of December 31, 2024, and 2023. All revenues recognized under this agreement derived in the United States. In accordance with the terms of the Company’s Termination Agreement with Aquestive Therapeutics (“Aquestive”) dated March 20, 2012, Aquestive has the right to receive an amount equal to 10 % of any royalty or milestone payments made to the Company related to AZSTARYS or KP1077 under the AZSTARYS License Agreement. The AZSTARYS License Agreement is within the scope of ASC 606, as the transaction represents a contract with a customer where the participants function in a customer / vendor relationship and are not exposed equally to the risks and rewards of the activities contemplated under the AZSTARYS License Agreement. Relief Exclusive License Agreement As a condition to entering into the Merger Agreement, Acer and Relief Therapeutics SA (“Relief”) entered into an exclusive license agreement on August 30, 2023 (the “Relief License Agreement”). Pursuant to the Relief License Agreement, Relief will hold exclusive development and commercialization rights for OLPRUVA in the European Union, Liechtenstein, San Marino, Vatican City, Norway, Iceland, Principality of Monaco, Andorra, Gibraltar, Switzerland, United Kingdom, Albania, Bosnia, Kosovo, Montenegro, Serbia and North Macedonia (“Geographical Europe”). The Company will have the right to receive a royalty of up to 10 % of the net sales of OLPRUVA in Geographical Europe. For the year ended December 31, 2024, the Company did not recognize any revenue under the Relief License Agreement. There was no deferred revenue related to this agreement as of December 31, 2024, and 2023. For further discussion of the Relief License Agreement, see Note T. Net revenue includes revenue from the sale of arimocloamol for the treatment of NPC under the remunerated expanded access compassionate use program in France, Accès Compassionnel (“French AC”). An expanded access compassionate use program is a program giving specific patients access to a drug, which is not yet approved for commercial sale. Only drugs targeting serious or rare indications and for which there is currently no appropriate treatment are considered for expanded access compassionate use programs. Further, to be considered for the expanded access compassionate use program, the drug must have proven efficacy and safety and must either be undergoing price negotiations or seeking marketing approval. In accordance with ASC 606, the Company recognizes revenue when fulfilling its performance obligation under the Expanded Access Program (“EAP”) by transferring control of promised goods or services to its customer, in an amount that reflects the consideration that the Company expects to receive in exchange for those goods or services. In determining when the customer obtains control of the product, the Company considers certain indicators, including whether the Company has a present right to payment from the customer, whether title and / or significant risks and rewards of ownership have transferred to the customer and whether the customer acceptance has been received. Revenue is recognized net of sales deductions, including discounts, rebates, applicable distributor fees, and revenue-based taxes. The French Health Authorities and the manufacturer have agreed to a price for sales under the French AC, but the final transaction price depends on the terms and conditions in the contracts with the French Health Authorities and is subject to price negotiations with the French Health Authorities following market approval. Any excess in the price charged the manufacturer compared to the price agreed with the health authorities once the drug product is approved in France must be repaid. The repayment is considered in the clawback liability (rebate). An estimate of net revenue and clawback liability are recognized using the “expected value” method. Accounting for net revenue and clawback liability requires determination of the most appropriate method for the expected final transaction price. This estimate also requires assumptions with respect to inputs into the method, including current pricing of comparable marketed products within the rare disease area in France. Management has considered the expected final sales price as well as the price of similar drug products. The Company is operating within a rare disease therapeutic area where there is unmet treatment need and hence a limited number of comparable commercialized drugs products. The limited available relevant market information for directly comparable commercialized drugs within rare disease increases the uncertainty in management’s estimate. For the years ended December 31, 2024, and 2023, the Company recognized revenue related to the EAP in France of \$ 9. 1 million and \$ 8. 7 million, respectively, which is net of a clawback liability of \$ 5. 7 million and \$ 5. 1 million, respectively, and other gross to net adjustments. The total estimated reserve liability as of December 31, 2024, and 2023 was \$ 12. 6 million and \$ 12. 2 million, respectively. As of December 31, 2024, and 2023, this estimated reserve liability is recorded as discount and rebate liabilities in the consolidated balance sheets and is separated into current and long-term based upon the timing of the expected payment to the French regulators. Product Sales On December 27, 2022, the FDA approved OLPRUVA (sodium phenylbutyrate), a prescription medicine used along with certain therapy, including changes in diet, for the long-term management of adults and children with UCDS weighing 44 pounds (20 kg) or greater and with a body surface area of 1. 2m2 or greater. On November 17, 2023, the Company acquired OLPRUVA in connection with the Merger (Note T). For the year ended December 31, 2024, sales of OLPRUVA were \$ 0. 1 million. For the year ended December 31, 2023, there were no sales of OLPRUVA. On September 20, 2024, the NDA for MIPLYFFA, an orally-delivered treatment for NPC, which is an ultra-rare and progressive neurodegenerative disease, was approved. For the year ended December 31, 2024, net sales of MIPLYFFA were \$ 10. 1 million. The Company currently utilizes a single specialty pharmacy provider as its sole distributor for both OLPRUVA and MIPLYFFA. The Company also enters into arrangements with health care providers and payors that provide for government mandated and / or privately negotiated rebates with respect to the purchase of its products. To commercialize OLPRUVA for oral suspension and MIPLYFFA in the U. S., the Company has built marketing, sales, medical affairs, distribution, managerial and other non-technical capabilities or is making arrangements with third parties to perform these services. All revenues derived from sales of OLPRUVA and MIPLYFFA are in the United States. K. Commitments and Contingencies Legal Matters From time to time, the Company is involved in various legal proceedings arising in the normal course of business. For some matters, a liability is not probable, or the amount cannot be reasonably estimated and, therefore, an accrual has not been made. However, for such matters when it is probable that the Company has incurred a liability and can reasonably estimate the amount, the Company accrues and discloses such estimates. Stockholder Litigation Related to the Merger On October 12, 2023, Brodsky & Smith, purporting to act as counsel for Jerry Beavee, who was asserted to be a stockholder of Acer, filed a complaint entitled Jerry Beavee v. Acer Therapeutics Inc., et al., No. 1: 23- cv- 08995 in the United States District Court for the Southern District of New York (the “Action”) alleging that defendants violated Section 14 (a) and 20 (a) of the Securities Exchange Act of 1934 by filing the Preliminary Merger Registration Statement which allegedly omitted certain information that such counsel asserts is material to Acer’s required disclosure. On October 30, 2023, Acer filed with the SEC a Schedule DEF14A that contained additional information regarding the Merger, which mooted the disclosure claims alleged in the Action. On December 8, 2023, Jerry Beavee filed with the court a notice of dismissal of the Action without prejudice. On October 20, 2023, Long Law, LLC and Accocelli Law, PLLC, purporting to act as counsel for Kevin Turner, who was asserted to be a stockholder of Acer, filed a complaint entitled Kevin Turner v. Acer Therapeutics Inc., et al., No. 1: 23- cv- 01185 in the United States District Court for the District of Delaware alleging that defendants violated Section 14 (a) and 20 (a) of the Securities Exchange Act of 1934 as well as SEC Rule 14a- 9 by filing the Definitive Proxy Statement which allegedly omitted certain information that such counsel asserts is material to Acer’s required disclosure. The complaint prays that, if asserted omissions are not adequately corrected, then Turner will seek to enjoin Acer from holding a stockholder meeting to approve the Merger and, if the Merger closes, will seek to rescind it and seek an award of damages. On October 20, 2023, Long Law, LLC, purporting to act as counsel for Matthew Jones, who was asserted to be a stockholder of Acer, filed a complaint entitled Matthew Jones v. Acer Therapeutics Inc., et al., No. 1: 23- cv- 01186 in the United States District Court for the District of Delaware alleging that defendants violated Section 14 (a) and 20 (a) of the Securities Exchange Act of 1934 as well as SEC Rule 14a- 9 by filing the Definitive Proxy Statement which allegedly omitted certain information that such counsel asserts is material to the Acer’s required disclosure. The complaint prays that, if asserted omissions are not adequately corrected, then Jones will seek to enjoin Acer from holding a stockholder meeting to approve the Merger and, if the Merger closes, will seek to rescind it and seek an award of damages. On June 19, 2024, the Company entered into a confidential fee agreement (the “Fee Agreement”) to settle the above stockholder litigation matters related to the Merger. The parties to the Fee Agreement were entitled to an aggregate payment of approximately \$ 0. 3 million, which was paid during the second quarter of 2024. Litigation Related to the AZSTARYS License Agreement In September 2024, the Company became engaged in a legal dispute regarding the AZSTARYS License Agreement. The litigation is in its early stages. The Company cannot predict with certainty the timing or ultimate outcome of this litigation or its potential impact on the Company’s business, financial condition, or results of operations. At this time, the Company has not recorded any accrual for contingent liability associated with this matter. The AZSTARYS License Agreement remains in effect during this litigation, and both parties continue to perform their respective obligations thereunder. However, there can be no assurance that this dispute will not have an adverse impact on the Company’s relationship with Commave or on the Company’s business. The Company will continue to monitor developments in this matter and will assess the potential impact on the Company’s financial statements in future periods. The Company expects to incur significant legal

expenses in connection with this litigation, which may materially affect its results of operations in future periods. As of December 31, 2024, and December 31, 2023, no accruals were made related to commitments and contingencies. L. Stock and Warrants Authorized, Issued, and Outstanding Common Shares As of December 31, 2024, and 2023, the Company had authorized shares of common stock of 250,000,000 shares. Of the authorized shares, 55,246,401 and 43,110,360 shares of common stock were issued as of December 31, 2024, and 2023, respectively, and 53,670,709 and 41,534,668 shares of common stock were outstanding as of December 31, 2024, and 2023, respectively. As of December 31, 2024, and 2023, the Company had reserved authorized shares of common stock for future issuance as follows: December 31, 2024 2023 Outstanding awards under equity incentive plans 7,789,658 8,023,142 Outstanding common stock warrants 5,483,537 5,603,729 Possible future issuances under equity incentive plans 5,383,165 1,728,885 Possible future issuances under employee stock purchase plan 1,148,012 1,340,172 Total common shares reserved for future issuance 19,804,372 16,695,928 Common Stock Activity The following table summarizes common stock activity for the years ended December 31, 2024 and 2023:

Shares of Common Stock Balance as of January 1, 2023	34,540,304	Common stock issued as compensation to third-parties	44,791	Common stock issued as a result of stock warrants exercised	110	Common stock issued as a result of stock options exercised	7,500	Common stock repurchased as a result of the Stock Repurchase Program	(665,739)	Common stock issued in connection with the Merger (Note T)	7,530,509	Common stock issued as a result of the Employee Stock Purchase Plan	77,193	Balance as of December 31, 2023	41,534,668
Common stock issued in connection with the Public Offering (Note B)	10,615,385	Common stock issued in connection with restricted stock units	218,000	Common stock issued as compensation to third-parties	92,988	Common stock issued in connection with vesting of performance-based awards	547,945	Common stock issued as a result of stock options exercised	469,563	Common stock issued as a result of the Employee Stock Purchase Plan	192,160	Balance as of December 31, 2024	53,670,709		

Authorized, Issued, and Outstanding Preferred Stock As of December 31, 2024, and 2023, the Company had 10,000,000 shares of authorized, unallocated and unissued preferred stock. As of December 31, 2024, and 2023, no shares of preferred stock were designated, issued or outstanding. Warrants to Purchase Common Stock The Company has issued warrants to purchase common stock to various third parties, of which 5,483,537 remain outstanding as of December 31, 2024, and are immediately exercisable. These warrants qualify as participating securities under ASC Topic 260, Earnings per Share, and are treated as such in the net loss per share calculation (Note P). The Company may be required to redeem these warrants for a cash amount equal to the Black-Scholes value of the portion of the warrants to be redeemed (the "Put Option"). In connection with the Merger (Note T), in November 2023, the Company directly issued to certain investors an aggregate of 1,382,489 shares of its common stock, par value \$ 0.0001 per share, and accompanying warrants to purchase up to 1,382,489 shares of its common stock (the "2023 Warrants") at a combined offering price of \$ 4.34 per share of common stock and the Warrants and an aggregate of 917,934 shares of its common stock in exchange for the cancellation of a warrant to purchase 2,920,306 shares of common stock of Acer. The Warrants are immediately exercisable and expire on November 22, 2028. The Company used the net proceeds of approximately \$ 6.0 million from the offering for general corporate purposes. These warrants are separately exercisable by the warrant holders. While the warrants are outstanding (but unexercised), the warrant holders will participate in any dividend or other distribution of the Company's assets to its common stockholders by way of return of capital or otherwise. As of December 31, 2024, and December 31, 2023, none of the warrants have been exercised. The warrants have been evaluated to determine the appropriate accounting and classification pursuant to ASC 480 and ASC 815. Generally, freestanding warrants should be classified as (i) liabilities if the warrant terms allow settlement of the warrant exercise in cash and (ii) equity if the warrant terms only allow settlement in shares of common stock. The Company determined that its outstanding warrants and the Put Option should be recorded as a liability and stated at fair value at each reporting period. Changes to the fair value of the warrant liability are recorded through the consolidated statements of operations as a fair value adjustment related to warrant and CVR liability. As of December 31, 2024, and December 31, 2023, the fair value of the liability associated with these warrants and the Put Option was approximately \$ 17.8 million and \$ 16.1 million, respectively. The fair value adjustment related to these warrants and the Put Option was approximately \$ 1.7 million of loss and (\$ 1.4) million of income for the years ended December 31, 2024, and 2023, respectively. M. Stock-Based Compensation The Company maintains a stock-based compensation plan (the "Incentive Stock Plan") that governs stock awards made to employees and directors prior to completion of the IPO. In November 2014, the Board of Directors of the Company ("the Board"), and in April 2015, the Company's stockholders, approved the Company's 2014 Equity Incentive Plan (the "2014 Plan"), which became effective in April 2015. The 2014 Plan provides for the grant of stock options, other forms of equity compensation, and performance cash awards. In June 2021, the Company's stockholders approved an Amended and Restated 2014 Equity Incentive Plan (the "A & R 2014 Plan"), following its adoption by the Board in April 2021, which among other things added 4,900,000 shares to the maximum number of shares of common stock to be issued under the plan and extended the annual automatic increases (discussed further below) until January 1, 2031 and eliminated individual grant limits that applied under the 2014 Plan to awards that were intended to comply with the exemption for "performance-based compensation" under Code Section 162(m). The maximum number of shares of common stock that may be issued under the A & R 2014 Plan was 9,932,883 as of December 31, 2024. The number of shares of common stock reserved for issuance under the A & R 2014 Plan will automatically increase on January 1 of each year, beginning on January 1, 2016, and ending on and including January 1, 2031, by 4% of the total number of shares of the Company's capital stock outstanding on December 31 of the preceding calendar year, or a lesser number of shares determined by the Board. Pursuant to the terms of the A & R 2014 Plan, on January 1, 2025, the common stock reserved for issuance under the A & R 2014 Plan automatically increased by 2,146,828 shares. During the years ended December 31, 2024, and 2023, 1,177,545 and 7,500 stock options were exercised, respectively. In January 2023, the Board approved the 2023 Employment Inducement Award Plan (as amended, the "2023 Plan"). The maximum number of shares of common stock that may be issued under the 2023 Plan is 4,500,000 as of December 31, 2024. Stock-based compensation expense recorded under the Incentive Stock Plan, A & R 2014 Plan, and 2023 Plan is included in the following line items in the accompanying consolidated statements of operations (in thousands): Year ended December 31, 2024 2023 Research and development \$ 5,819 \$ 2,664 General and administrative 9,087 3,290 Total stock-based compensation expense \$ 14,906 \$ 5,954 There was \$ 2.5 million of stock-based compensation expense related to performance-based awards recognized during the year ended December 31, 2024. There was no stock-based compensation expense related to performance-based awards recognized during the year ended December 31, 2023. As a result of transition agreements entered into with certain former employees, the vesting for certain stock options was accelerated, resulting in a net increase in stock-based compensation expense of \$ 2.4 million for the year ended December 31, 2024. The effects of this accelerated vesting are reflected in the table above within research and development expenses. As a result of transition agreements entered into with certain former employees, certain stock options were modified, resulting in a net decrease in stock-based compensation expense of \$ 1.2 million for the year ended December 31, 2023. The effects of those modifications are reflected in the table above within selling, general, and administrative expenses. In June 2021, the Company's stockholders approved an Employee Stock Purchase Plan (the "ESPP"), following its adoption by the Board in April 2021. The maximum number of shares of common stock that may be issued under the ESPP is 1,500,000. The first offering period under the ESPP began on October 1, 2021, and the first purchase date occurred on May 31, 2022. As of December 31, 2024, 351,988 shares have been issued under the ESPP. Stock Option Awards The Company estimates the fair value of stock options using the Black-Scholes option-pricing model, which requires the use of subjective assumptions, including the expected term of the option, the expected stock price volatility, expected dividend yield and the risk-free interest rate for the expected term of the option. The expected term represents the period of time the stock options are expected to be outstanding. Due to the lack of sufficient historical exercise data to provide a reasonable basis upon which to otherwise estimate the expected term of the stock options, the Company uses the simplified method to estimate the expected term for its "plain vanilla" stock options. Under the simplified method, the expected term of an option is presumed to be the mid-point between the vesting date and the end of the contractual term. Some options, for example those that have exercise prices in excess of the fair value of the underlying stock, are not considered "plain vanilla" stock options. For these options, the Company uses an expected term equal to the contractual term of the option. Expected volatility is based on the Company's historical volatility over the estimated expected term of the stock options. The Company assumes no dividend yield because dividends are not expected to be paid in the near future, which is consistent with the Company's history of not paying dividends. The Company recognizes compensation expense related to stock-based payment transactions upon satisfaction of the requisite service or vesting requirements. Forfeitures are estimated at the time of grant and revised based on actual forfeitures, if necessary, in subsequent periods if actual forfeitures differ from those estimates. Using the Black-Scholes option-pricing model, the weighted-average fair value of awards granted during the years ended December 31, 2024, and 2023, fair value was \$ 5.74 and \$ 3.65 per share, respectively. The assumptions used to estimate fair value are as follows: Year Ended December 31, 2024 2023 Risk-free interest rate 3.82 %- 4.50 % 3.34 %- 4.79 % Expected term (in years) 5.50 - 6.25 5.50 - 10.00 Expected volatility 89.85 %- 91.32 % 89.48 %- 93.67 % Expected dividend yield 0.00 The activity under the Incentive Stock Plan, A & R 2014 Plan, and 2023 Plan for the year ended December 31, 2024, is summarized as follows: Weighted Weighted Avg Aggregate Number of Average Remaining Intrinsic Options Exercise Price Contractual Term Value Outstanding balance at January 1, 2024 7,275,197 \$ 8.40 \$ 8.68 \$ 11,089 Granted 962,700 \$ 5.74 - Exercised or released 1,162,705 \$ 5.30 - \$ 1,966 Canceled or forfeited 314,250 \$ 4.90 - Expired 809,542 \$ 22.52 - Outstanding balance at December 31, 2024 5,951,400 \$ 7.25 \$ 6.79 \$ 17,448 Exercisable at December 31, 2024 2,399,305 \$ 10.25 \$ 4.47 \$ 6,302 Vested and expected to vest at December 31, 2024 5,764,166 \$ 6.75 \$ 16,783 Information regarding currently outstanding and exercisable options as of December 31, 2024, is as follows: Options Outstanding Options Exercisable Weighted Avg Weighted Avg Number of Remaining Number of Remaining Exercise Price Shares Contractual Term \$ 2.848 to \$ 10.00 5,841,257 6.91 2,289,162 4.69 \$ 10.01 to \$ 30.00 1,875 4.31 1,875 4.37 \$ 30.01 to \$ 50.00 39,218 2.67 39,218 2.71 \$ 50.01 to \$ 70.00 21,958 1.60 21,958 1.63 \$ 70.01 to \$ 327.20 47,092 1.36 47,092 1.34 \$ 327.20 to \$ 400.00 39,305 4.37 39,305 4.37 Total fair value of stock options vested during the years ended December 31, 2024 and 2023, was \$ 8.1 million and \$ 9.2 million, respectively. Unvested stock options as of December 31, 2024 and 2023, were as follows: Number of Unvested Shares December 31, Exercise Price 2024 2023 \$ 2.848 to \$ 10.00 3,552,095 5,614,977 Total number of unvested stock options 3,552,095 5,614,977 As of December 31, 2024 there was \$ 9.5 million of total unrecognized compensation cost related to unvested share-based compensation arrangements granted under the A & R 2014 Plan and 2023 Plan. Restricted stock units The following table summarizes the restricted stock unit activity under the A & R 2014 and 2023 Plan: Shares Weighted-average grant date fair value Unvested balance at December 31, 2023 747,945 \$ 4.33 Granted 2,012,958 5.52 Vested 765,945 4.77 Forfeited 156,700 5.83 Unvested balance at December 31, 2024 1,838,258 \$ 5.32 As of December 31, 2024 there was \$ 7.1 million of total unrecognized compensation cost related to restricted stock units. N. Fair Value of Financial Instruments The accounting standard for fair value measurements provides a framework for measuring fair value and requires disclosures regarding fair value measurements. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date, based on the Company's principal or, in absence of a principal, most advantageous market for the specific asset or liability. The Company uses a three-tier fair value hierarchy to classify and

disclose all assets and liabilities measured at fair value on a recurring basis, as well as assets and liabilities measured at fair value on a non-recurring basis, in periods subsequent to their initial measurement. The hierarchy requires the Company to use observable inputs when available, and to minimize the use of unobservable inputs, when determining fair value. The three tiers are defined as follows: • Level 1 — Observable inputs that reflect quoted market prices (unadjusted) for identical assets or liabilities in active markets; • Level 2 — Observable inputs other than quoted prices in active markets that are observable either directly or indirectly in the marketplace for identical or similar assets and liabilities; and • Level 3 — Unobservable inputs that are supported by little or no market data, which require the Company to develop its own assumptions. The carrying amounts of certain financial instruments, including cash and cash equivalents, accounts and other receivables, accounts payable and accrued expenses, the Nantahala Note, and the margin account approximate their respective fair values due to the short-term nature of such instruments. Assets and Liabilities Measured at Fair Value on a Recurring Basis The Company evaluates its financial assets and liabilities subject to fair value measurements on a recurring basis to determine the appropriate level in which to classify them for each reporting period. This determination requires significant judgments to be made. The following table summarizes the conclusions reached regarding fair value measurements as of December 31, 2024, and 2023 (in thousands):

Quoted Prices Significant in Active Other Significant Balance at Markets for Observable Unobservable December 31, Identical Assets Inputs Inputs 2024 (Level 1) (Level 2) (Level 3) CVR liability (Note T) \$ 3,500	Quoted Prices Significant in Active Other Significant Balance at Markets for Observable Unobservable December 31, Identical Assets Inputs Inputs 2023 (Level 1) (Level 2) (Level 3) CVR liability (Note T) \$ 7,262
\$-S- \$ 3,500 Warrant liabilities 17,804— 17,804 Total liabilities \$ 21,304 \$-S- \$ 21,304 Securities: U. S. Treasury securities \$ 35,711 \$ 35,711 \$-S- Corporate bonds 6,010— 6,010— Total assets \$ 41,721 \$ 35,711 \$ 6,010 \$-S- Quoted Prices Significant in Active Other Significant Balance at Markets for Observable Unobservable December 31, Identical Assets Inputs Inputs 2023 (Level 1) (Level 2) (Level 3) CVR liability (Note T) \$ 7,262 \$-S- \$ 7,262 Warrant liabilities 16,100— 16,100 Total liabilities \$ 23,362 \$-S- \$ 23,362 Securities: U. S. Treasury securities \$ 24,688 \$ 24,688— Total assets \$ 24,688 \$ 24,688 \$-S- The common stock warrant liabilities were recorded at fair value using the Black-Scholes option pricing model. The following assumptions were used in determining the fair value of the warrant liabilities valued using the Black-Scholes option pricing model as of December 31, 2024, and 2023: December 31, 2024 December 31, 2023 Risk-free interest rate 4.08 %— 4.23 % 3.76 %— 4.12 % Volatility 62.14 %— 68.68 % 62.01 %— 92.42 % Dividend yield — % — % Expected term (years) 1.02— 3.89 2.0— 4.9 Weighted average fair value \$ 3.25 \$ 2.94	\$-S- \$ 7,262 Warrant liabilities 16,100— 16,100 Total liabilities \$ 23,362 \$-S- \$ 23,362 Securities: U. S. Treasury securities \$ 24,688 \$ 24,688— Total assets \$ 24,688 \$ 24,688 \$-S- The common stock warrant liabilities were recorded at fair value using the Black-Scholes option pricing model. The following assumptions were used in determining the fair value of the warrant liabilities valued using the Black-Scholes option pricing model as of December 31, 2024, and 2023: December 31, 2024 December 31, 2023 Risk-free interest rate 4.08 %— 4.23 % 3.76 %— 4.12 % Volatility 62.14 %— 68.68 % 62.01 %— 92.42 % Dividend yield — % — % Expected term (years) 1.02— 3.89 2.0— 4.9 Weighted average fair value \$ 3.25 \$ 2.94

The following table is a reconciliation for the common stock warrant liabilities measured at fair value using Level 3 unobservable inputs (in thousands):

Balance at December 31, 2023 \$ 16,100	Change in fair value measurement 1,704	Balance at December 31, 2024 \$ 17,804
For the year ended December 31, 2024, the changes in fair value of the warrant liabilities primarily resulted from the volatility of the Company's common stock and the change in the risk-free interest rates. O. Income Taxes The Company did not recognize any state tax expense during the years ended December 31, 2024, and 2023. A reconciliation of the difference between the (expense) / benefit for income taxes at the statutory U. S. federal income tax rate is as follows (in thousands, except amounts pertaining to rate which are shown as a percentage): Year ended December 31, 2024 2023 Federal statutory rate 21.00 % 21.00 % Effect of: Foreign rate differential 0.04— Change in valuation allowance (13.17) (23.29) Return to provision and deferred true-up (4.40) (2.41) Federal research and development credit— 0.09 Change in rate— (0.01) State tax benefit (net of federal) 5.05 5.19 Stock-based compensation (0.55) (0.20) Global intangible low-taxed income credit (0.02) (3.41) Officers compensation (0.23)— Expiration of net operating loss deferred tax asset (3.01)— Deferred adjustment and rate change (4.27)— Foreign research and development excess benefit— (0.86) Uncertain tax position (17.88)— Other 0.39 (0.10) Federal income tax provision effective rate (17.05) % 0.00 % The components of deferred tax assets and liabilities are as follows (in thousands): December 31, 2024 2023 Deferred tax assets relating to: Net operating loss carryforwards \$ 100,552 \$ 90,743 Research and development tax carryforward 19,153 20,670 Stock-based compensation 5,711 5,154 174 expenses 33,941 30,241 Right-of-use liability 108 265 Property and equipment 79 23 Other deferred tax assets 3,652 1,951 Total gross deferred tax assets 163,196 149,047 Deferred tax liabilities relating to: Right-of-use asset 82 249 Intangibles 17,859 14,473 Total gross deferred tax liabilities 17,941 14,722 Deferred tax assets less liabilities 145,256 134,324 Valuation allowance (146,359) (134,488) Net deferred tax liability \$ (1,103) \$ (164) In assessing the realizability of deferred tax assets, management considers whether it is more likely than not that some portion or all of the deferred tax assets will not be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which those temporary differences become deductible. Management considers the scheduled reversal of deferred tax liabilities, projected future taxable income and tax planning strategies in making this assessment. Based upon the level of historical taxable income (losses) and projections for future taxable income (losses) over the periods in which the deferred tax assets are deductible, management believes it is more likely than not that the Company will not realize the benefits of these deductible differences in the future. The Company recorded refundable research and development tax credit as other income and not income tax under ASC 740 in the consolidated statement of operations for the year ended December 31, 2023. These refundable tax credits are a result of increased qualified research and development spending in certain jurisdictions which allow for a refundable credit even when the Company has no current period income tax expense. The Company has analyzed their tax positions under the principles of ASC 740-10, Accounting for Uncertainty in Income Taxes. In accordance with the Tax Cuts and Jobs Act of 2017, the Company evaluated its plans for reinvestment or repatriation of current and future earnings of foreign operations and determined to indefinitely reinvest current and future earnings of foreign operations in the foreign operation. The Company has not repatriated funds to the U. S. to satisfy domestic liquidity needs, nor does the Company anticipate the need to do so. If in the foreseeable future, the Company can no longer demonstrate that these earnings are indefinitely reinvested, a deferred tax liability will be recognized. The Company has federal operating loss carryforwards totaling \$ 381.3 million, \$ 118.5 million of which, if not utilized, will begin to expire in 2027 and \$ 262.8 million of which have no expiration date. The Company also has certain state net operating loss carryforwards totaling \$ 428.6 million, which, if not utilized, will begin to expire in 2027. The Company also has Denmark net operating loss carryforwards totaling \$ 7.7 million which has indefinite carryforward period in Denmark. Due to potential ownership changes that may have occurred or would occur in the future, Internal Revenue Code Section 382 may place additional limitations on the Company's ability to utilize the net operating loss carryforward. P. Net Loss Per Share For all periods presented herein, the Company did not use the two-class method to compute net loss attributable to common stockholders per share of common stock, even though it had issued securities, other than common stock, that contractually entitled the holders to participate in dividends and earnings, because these holders are not obligated to participate in a loss. The two-class method requires earnings for the period to be allocated between common stock and participating securities based upon their respective rights to receive distributed and undistributed earnings. Under the two-class method, for periods with net income attributable to common stockholders, basic net income attributable to common stockholders per share of common stock is computed by dividing the undistributed net income attributable to common stockholders by the weighted average number of shares of common stock outstanding during the period. Undistributed net income attributable to common stockholders is computed by subtracting from net income the portion of current period earnings that participating securities would have been entitled to receive pursuant to their dividend rights had all of the period's earnings been distributed and subtracting the actual or deemed dividends declared. No such adjustment to earnings is made during periods with a net loss as the holders of the participating securities have no obligation to fund losses. Diluted net income attributable to common stockholders per share of common stock is computed under the two-class method by using the weighted average number of shares of common stock outstanding plus the potential dilutive effects of stock options and warrants. In addition to analyzing under the two-class method, the Company analyzes the potential dilutive effect of stock options and warrants, under the treasury-stock method when calculating diluted income (loss) attributable to common stockholders per share of common stock, in which it is assumed that the stock options and warrants convert into common stock at the beginning of the period or date of issuance, if the stock option or warrant was issued during the period. The Company reports the more dilutive of the approaches (two-class or treasury-stock / if-converted) as its diluted net income (loss) attributable to common stockholders per share of common stock during the period. As noted above, for all periods presented herein, the Company did not utilize the two-class approach as the Company was in a net loss position and the holders of the participating securities have no obligation to fund losses. The Company did analyze diluted net loss attributable to common stockholders per share of common stock under the treasury-stock / if-converted method and noted that all outstanding stock options and warrants were anti-dilutive for the periods presented. For all periods presented, basic net loss attributable to common stockholders per share of common stock was the same as diluted net loss attributable to common stockholders per share of common stock. The following securities, presented on a common stock equivalent basis, have been excluded from the calculation of weighted average number of shares of common stock outstanding because their effect is anti-dilutive: December 31, 2024 2023 Awards under equity incentive plans 1,148,012 1,728,885 Common stock warrants 5,483,537 5,603,729 Total securities excluded from the calculation of weighted average number of shares of common stock outstanding 6,631,549 7,332,614 A reconciliation from net loss to basic net loss attributable to common stockholders per share of common stock and diluted net loss attributable to common stockholders per share of common stock for the years ended December 31, 2024, and 2023, is as follows (in thousands): December 31, 2024 2023 Basic and diluted net loss per share of common stock: Net loss, basic and diluted \$ (105,511) \$ (46,049) Weighted average number of shares of common stock outstanding, basic and diluted 46,251 35,452 Basic and diluted net loss per share of common stock \$ (2.28) \$ (1.30) Q. Leases The Company has operating and finance leases for office space, laboratory facilities and various laboratory equipment, furniture and office equipment and leasehold improvements. The Company determines if an arrangement is a lease at contract inception. Lease assets and lease liabilities are recognized based on the present value of lease payments over the lease term at the commencement date. The Company does not separate lease and non-lease components. Leases with a term of 12 months or less at commencement are not recorded on the consolidated balance sheets. Lease expense for these arrangements is recognized on a straight-line basis over the lease term. The Company's leases have remaining lease terms of less than 1 year to approximately 4 years, some of which include options to extend the leases for up to 5 years, and some which include options to terminate the leases within 1 year. Effective June 1, 2021, the Company agreed to sublease office space in Florida, comprised of one of the two contiguous suites, under a non-cancelable operating lease, which expires in February 2026. The components of lease expense were as follows (in thousands): Year Ended December 31, Lease Cost 2024 2023 Finance lease cost: Amortization of right-of-use assets \$ 44 \$ 102 Interest on lease liabilities— Total finance lease cost 44 102 Operating lease cost 330 437 Short-term lease cost 177 171 Variable lease cost 39 40 Less: sublease income (128) (157) Total lease costs \$ 462 \$ 593 Supplemental cash flow information related to leases was as follows (in thousands): Year Ended December 31, 2024 2023 Cash paid for amounts included in the measurement of lease liabilities: Financing cash flows from finance leases— 5 Operating cash flows from operating leases 405 552 Operating cash flows from short-term leases 225 171 Operating cash flows from variable lease costs 39 40 Right-of-use assets obtained in exchange for lease liabilities: Finance leases \$-S- Operating leases 419— Supplemental balance sheet information related to leases was as follows (in thousands, except weighted average remaining lease term and weighted average discount rate): December 31, 2024 2023 Finance Leases Property and equipment, at cost \$ 1,031 \$ 1,031 less: accumulated depreciation and amortization (1,023) (882) Property and equipment, net \$ 8 \$ 149 Operating Leases Operating lease right-of-use assets \$ 657 \$ 790 Total operating lease right-of-use assets \$ 657 \$ 790 Current portion of		

operating lease liabilities \$ 420 \$ 543 Operating lease liabilities, less current portion 372 456 Total operating lease liabilities \$ 792 \$ 999 Weighted Average Remaining Lease Term Operating leases (in years) 3.2 Weighted Average Discount Rate Finance leases- 14.3 % Operating leases 9.9 % 7.6 % Maturities on lease liabilities were as follows (in thousands): Operating Year Ending December 31, Leases 2025 \$ 481 2026 138 2027 127 2028 150 2029 38 Thereafter 10 Total lease payments 944 Less: future interest expense (152) Lease liabilities \$ 792 R. Employee Benefit Plan The Company has a 401 (k) retirement plan (the "401 (k) Plan") that covers substantially all employees. The Company may provide a discretionary match with a maximum amount of 4 % of the participant's compensation, which vests immediately. The Company made matching contributions under the 401 (k) Plan of approximately \$ 0.5 million and \$ 0.3 million for the years ended December 31, 2024, and 2023, respectively. The Company has a discretionary profit-sharing plan (the "Profit Sharing Plan") that covers all employees. Employees become eligible participants in the Profit Sharing Plan once they have provided three years of service to the Company. The Company made no contributions to the Profit Sharing Plan in 2024 or 2023. S. Goodwill & Intangible Assets The Company's goodwill balance was \$ 4.7 million as of December 31, 2024, and 2023. As of December 31, 2024, and 2023, non-amortizable intangible assets include IPR & D of \$ 2.0 million. As of December 31, 2024, and 2023, the Company had a definite-lived intangible asset, net related to the acquisition of OLPRUVA as a result of the Merger of \$ 61.3 million and \$ 67.2 million, respectively. This is amortized on a straight-line basis over the OLPRUVA patent life of 13 years and is reviewed periodically for impairment. Amortization expense is recorded as intangible asset amortization in the consolidated statements of operations and was \$ 6.2 million and \$ 0.8 million for the years ended December 31, 2024, and 2023. The Company's review of the estimated useful lives of its intangible assets indicated that based on recent facts and circumstances, including detailed analysis on sales experience and prospective product strategy, the actual life of the definite-lived intangible asset related to OLPRUVA was longer than the estimated useful life previously established at the acquisition of the asset. As a result, effective September 30, 2024, the Company changed its estimate of the useful life of this intangible asset to better reflect the estimated periods during which this asset will remain in service. The estimated useful life was previously 11 years and was increased to 13 years. The change in estimate was applied prospectively and decreased intangible asset amortization expense by \$ 0.2 million for the year ended December 31, 2024. Consequently, there was an increase to intangible assets, net of \$ 0.2 million at year end. The impact of this change in estimate to net income and basic and diluted earnings per share was de minimis. In connection with the XOMA License Agreement, the Company owed XOMA a regulatory milestone payment of \$ 6.0 million upon approval of MIPLYFFA, which was paid in October 2024. This definite-lived intangible asset is amortized on a straight-line basis over the MIPLYFFA patent life of approximately five years and is reviewed periodically for impairment. Amortization expense is recorded as intangible asset amortization in the consolidated statements of operations and was \$ 0.3 million for the year ended December 31, 2024. The definite-lived intangible assets that are subject to amortization have been reviewed for impairment whenever events or changes in circumstances have indicated that their carrying amounts may not be recoverable. The Company's historical sales experience related to OLPRUVA resulted in management preparing an estimate of future cash flows used to assess the recoverability of such asset. Future cash flows specific to OLPRUVA, which most significantly includes an estimate of forecasted revenues, are based on reasonable and supportable assumptions regarding the cash flows expected to result from the use of the asset and its eventual disposition. As a result of the Company's analysis, the asset was fully recoverable and no impairments were recorded by the Company as of and for the year's ended December 31, 2024, and 2023. For intangible assets subject to amortization, estimated amortization expense for the five fiscal years subsequent to December 31, 2024, is expected to be as follows: 2025 \$ 6,461 2026 \$ 6,461 2027 \$ 6,461 2028 \$ 6,461 2029 \$ 5,830 T. Merger On August 30, 2023, in connection with the Merger Agreement with Acer, the following transactions occurred prior to Closing:

- Bridge Loan- Zevra and Acer entered into a bridge loan agreement (the "Bridge Loan Agreement"), providing for Zevra to make loans (collectively, the "Bridge Loan") to Acer up to an aggregate principal amount of \$ 16.5 million. The Bridge Loan was provided to Acer to support its termination agreement with Relief Therapeutics Holding SA ("Relief") and to provide Acer with working capital, including for payments of accounts payable to support the commercial launch of OLPRUVA and the development of celiaprolol pending the Merger's closure. On October 31, 2023, the Company and Acer entered into an amendment to the Bridge Loan Agreement, which increased the aggregate principal amount available under the loan from \$ 16.5 million to \$ 18.0 million.
- Purchase of Acer's Term Loans- Zevra purchased certain indebtedness of Acer held by Nantahala Capital Management, LLC ("Nantahala"). Under the loan purchase with Nantahala, certain of its affiliates and certain other parties (collectively with Nantahala, "Nantahala Holders") Zevra purchased (i) an original senior secured term loan facility made available to Acer in an aggregate amount of \$ 6.5 million and funded on March 14, 2022, and (ii) an additional senior secured term loan made to Acer in an aggregate amount of \$ 7.0 million in a single borrowing which funded on January 31, 2023 for (1) \$ 12.0 million in cash; (2) 98,683 shares of Zevra Common Stock; and (3) a secured Promissory Note payable by Zevra to Nantahala in the original principal amount \$ 5.0 million. These were recorded as receivables from Acer and were treated as a settlement of a preexisting relationship in connection with the closing of the transaction and recorded as a component of purchase consideration.
- Purchase of Acer's Convertible Notes ("Marathon Convertible Notes")- Under the Note Purchase Agreement with the Nantahala Holders, Zevra purchased the Marathon Convertible Notes that Nantahala had acquired on June 16, 2023. Zevra acquired the Marathon Convertible Notes in exchange for the issuance of 2,171,038 shares of Zevra Common Stock at \$ 5.0667 per share for a total purchase price of \$ 11.0 million.
- Amendment to IP License Agreement and IP Termination Agreement: As a condition to entering into the Merger Agreement, Acer and Relief Therapeutics Holding AG ("Relief") entered into the Exclusive License Agreement and the Termination Agreement terminating the collaboration and license agreement, dated March 19, 2021, by and between Acer and Relief. Pursuant to the Exclusive License Agreement, Relief holds exclusive development and commercialization rights for OLPRUVA in Geographical Europe. Acer has the right to receive a royalty of up to 10.0 % of the net sales of OLPRUVA in Geographical Europe. In accordance with the terms of the Termination Agreement, Relief received an upfront payment from Acer of \$ 10.0 million (which payment was funded with the Bridge Loan described above) with an additional payment of \$ 1.5 million due on the first-year anniversary of the \$ 10.0 million payment. Acer also agreed to pay a 10.0 % royalty on net sales of OLPRUVA worldwide, excluding Geographical Europe, and 20.0 % of any value received by Acer from certain third parties relating to OLPRUVA licensing or divestment rights, all of the foregoing which are capped at \$ 45.0 million, for total payments to Relief of up to \$ 56.5 million. In connection with the closing of the Merger on November 17, 2023, each share of common stock of Acer was converted into the right to receive (i) 0.1210 fully paid and non-assessable shares of common stock of Zevra, par value \$ 0.0001 per share, and (ii) one non-transferable contingent value right ("CVR") to be issued by Zevra, which will represent the right to receive one or more contingent payments up to an additional \$ 76 million upon the achievement, if any, of certain commercial and regulatory milestones for Acer's OLPRUVA and celiaprolol products within specified time periods. Certain additional cash payments are also possible pursuant to the CVRs with respect to milestones involving Acer's early-stage program ACER-2820 (emetine). The assets acquired and liabilities assumed were recorded based on their acquisition date fair values. Consideration for the Merger was \$ 72.6 million and consists of (i) approximately 2.96 million shares of Zevra common stock valued at \$ 12.8 million, (ii) the Bridge Loan advances of \$ 17.8 million, (iii) \$ 12.0 million in cash paid to Nantahala; (iv) 2.27 million shares of Zevra Common Stock issued to Nantahala valued at \$ 11.5 million based on the VWAP of shares of Zevra Common Stock during the 20 consecutive trading days ending on the trading date prior to August 30, 2023; (v) a secured promissory note payable by Zevra to Nantahala in the original principal amount of \$ 5.0 million, as disclosed in Note I, (vi) \$ 8.5 million in the estimated fair value of contingent consideration related to the CVRs, (vii) approximately 0.9 million shares of Zevra Common Stock issued to a former holder of Acer warrants valued at \$ 4.0 million based on Zevra's common stock price on the Effective Date and (viii) \$ 1.0 million in notes payable paid by the Company on Acer's behalf. In addition, effective as of immediately prior to the Effective Time, all of the outstanding and unexercised Acer stock options were automatically cancelled and ceased to exist without any cash or other consideration being paid or provided in respect thereof. The following purchase price allocation reflects the preliminary estimates of and assumptions related to the fair values of assets acquired and liabilities assumed: Assets Cash \$ 575 Prepaid expenses 278 Other current assets 11 Inventory 9,376 Property, plant, and equipment 35 Other noncurrent assets 209 Approved product- OLPRUVA 68,000 IPR & D- celiaprolol 2,000 Goodwill acquired 4,538 85,022 Liabilities Accounts payable and accrued expenses \$ 10,718 Deferred collaboration funding 1,500 Operating lease liabilities 175 12,393 Fair Value of Net Assets Acquired \$ 72,629 The fair values assigned to the tangible and intangible assets acquired and liabilities assumed were determined using an income approach based on management's estimates and assumptions, as well as other information compiled by management, including third-party valuations that utilize customary valuation procedures and techniques. These preliminary fair values are subject to change within the one-year measurement period. The estimated fair values were developed by discounting future net cash flows to their present value at market-based rates of return. The goodwill acquired represents the excess of the purchase price and related costs over the value assigned to the net tangible and identifiable intangible assets of the business acquired. The useful lives of the intangible assets for amortization purposes were determined by considering the period of expected cash flows used to measure the fair values of the intangible assets adjusted as appropriate for entity-specific factors including legal, regulatory, contractual, competitive, economic and other factors that may limit the useful life. The marketed product asset is amortized on a straight-line basis over its estimated useful life. As of December 31, 2023, the IPR & D project had not been completed or abandoned and, therefore, the IPR & D intangible asset is not currently subject to amortization. On November 22, 2023, the Company sold an aggregate of 917,934 shares of its common stock to a healthcare focused investment fund (the "Investor") to cancel a warrant held by the Investor to purchase 2,920,306 shares of common stock of Acer. The shares of common stock were offered and sold to the Investor in a registered direct offering without an underwriter or placement agent. Contingent Consideration Contingent consideration liabilities relate to the Company's liabilities arising in connection with the CVRs issued as a result of the Merger. The contingent consideration is classified as Level 3 in the fair value hierarchy. The fair value is measured based on a Monte Carlo simulation or a scenario-based method, depending on the earn-out achievement objectives, utilizing projections about future performance. Significant inputs include volatility and projected financial information, including projections representative of a market participant's view of the expected cash payments associated with the agreed upon regulatory milestones based on probabilities of technical success, timing of the potential milestone events for the compounds, and estimated discount rates. The following table provides a reconciliation of the beginning and ending balances related to the contingent consideration liabilities for the CVRs (dollars in thousands): Balance at December 31, 2023 \$ 7,262 Change in fair value recognized in earnings (3,762) Balance at December 31, 2024 \$ 3,500 For the year ended December 31, 2024, the Company recorded a \$ 3.7 million gain on the change in fair value of contingent consideration, primarily due to changes in market data and revenue projections. U. Subsequent Events The Company evaluated events and transactions occurring subsequent to December 31, 2024, through March 12, 2025, the date the accompanying financial statements were issued. During this period, other than the sale of the PRV, which is disclosed in Note A, there were no subsequent events that required recognition in the accompanying consolidated financial statements, nor were there any additional non-recognized subsequent events that required disclosure. Exhibit No. Description 2.1 * * * Agreement and Plan of Merger dated as of August 30, 2023, by and among Zevra Therapeutics, Inc., Aspen Z

Merger Sub, Inc., and Acer Therapeutics Inc. (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on August 31, 2023). 3. 1 Amended and Restated Certificate of Incorporation of Zevra Therapeutics, Inc. (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on April 21, 2015) 3. 1. 1 Certificate of Amendment of Amended and Restated Certificate of Incorporation of the Company, effective as of December 23, 2020 (incorporated herein by reference to Registrant's Current Report on Form 8-K as filed with the SEC on December 28, 2020). 3. 1. 2 Certificate of Elimination of Series A Convertible Preferred Stock of Zevra Therapeutics, Inc. (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on June 23, 2021). 3. 1. 3 Certificate of Elimination of Series B-1 Convertible Preferred Stock of Zevra Therapeutics, Inc. (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on June 23, 2021). 3. 1. 4 Certificate of Elimination of Series B-2 Convertible Preferred Stock of Zevra Therapeutics, Inc. (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on June 23, 2021). 3. 1. 5 Certificate of Amendment of Amended and Restated Certificate of Incorporation of Zevra Therapeutics, Inc. (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on February 24, 2023). 3. 2 Amended and Restated Bylaws, as currently in effect, of Zevra Therapeutics, Inc. (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on February 28, 2024). 4. 1 Specimen stock certificate evidencing shares of Common Stock (incorporated herein by reference to the Registrant's Annual Report on Form 10-K as filed with the SEC on March 12, 2021). 4. 2 Form of Common Stock Purchase Warrant and schedule of holders (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on January 13, 2021). 4. 3 Form of Inducement Warrant (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on January 26, 2021). 4. 4 Form of Inducement Warrant (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on June 23, 2021). 4. 5 * Description of the Registrant's Securities Registered Pursuant to Section 12 of the Securities Exchange Act of 1934. 4. 6 Form of Common Stock Purchase Warrant (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on November 20, 2023). 10. 1 Material Supply Agreement, by and between the Registrant and Johnson Matthey, Inc., dated as of November 2, 2009 (incorporated by reference Registrant's Amendment No. 1 to Registration Statement on Form S-1 / A (File No. 333- 202660) as filed with the SEC on April 3, 2015). 10. 2 Payoff letter, dated as of February 8, 2021, by and among the Company and the lenders named therein (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on February 9, 2021). 10. 3 Second Amendment to Senior Secured Convertible Note and Warrant, by and between Registrant and Deerfield Private Design Fund III, L. P., dated January 6, 2016 (incorporated by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on January 11, 2016). 10. 3. 1 Fourth Amendment to Senior Secured Convertible Note and Warrant, effective as of October 3, 2016, by and between the Registrant and Deerfield Private Design Fund III, L. P. (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on October 3, 2016). 10. 3. 2 Amendment to Convertible Note and Warrant Agreement, dated November 20, 2018, between the Company and Deerfield Private Design Fund III, L. P. (as incorporated herein by reference to the Company's Current Report on Form 8-K as filed with the SEC on November 20, 2018). 10. 3. 3 Seventh Amendment to Senior Secured Convertible Note and Sixth Amendment to Warrant, dated February 28, 2019, between the Company and Deerfield Private Design Fund III, L. P. (incorporated herein by reference to the Registrant's Annual Report on Form 10-K as filed with the SEC on March 1, 2019). 10. 3. 4 Amendment to Senior Secured Convertible Notes and Amendment to Warrant, dated as of February 17, 2020, by and among Registrant and the noteholders party thereto (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on February 18, 2020) 10. 3. 5 Amendment to Senior Secured Convertible Notes and Amendment to Warrant, dated as of January 12, 2021, by and among the Company, Deerfield Private Design Fund III, L. P. and Deerfield Special Situations Fund, L. P. (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on January 13, 2021) 10. 4 Warrant to Purchase Shares of Series D Preferred Stock issued to Deerfield Private Design Fund III, L. P., dated as of June 2, 2014 (incorporated herein by reference to the Registrant's Registration Statement on Form S-1 (File No. 333- 202660) as filed with the SEC on March 11, 2015). 10. 4. 1 Form of Stock Purchase Warrant to purchase shares of Series D Convertible Preferred Stock issued in bridge financing, along with a schedule of warrant holders (incorporated herein by reference to the Registrant's Registration Statement on Form S-1 (File No. 333- 202660) as filed with the SEC on March 11, 2015). 13 EXHIBITS, CONTINUED Exhibit No. Description 10. 5 Amended and Restated Investors' Rights Agreement, dated as of February 19, 2015, by and among the Registrant and certain of its stockholders (incorporated herein by reference to the Registrant's Registration Statement on Form S-1 (File No. 333- 202660) as filed with the SEC on March 11, 2015). 10. 6 Agreement to Terminate CLA, by and between MonoSol Rx, LLC and the Registrant, dated as of March 20, 2012 (incorporated herein by reference to the Registrant's Amendment No. 1 to Registration Statement on Form S-1 / A (File No. 333- 202660) as filed with the SEC on April 3, 2015). 10. 7 # Incentive Stock Plan, as amended to date (incorporated herein by reference to the Registrant's Registration Statement on Form S-1 (File No. 333- 202660) as filed with the SEC on March 11, 2015). 10. 7. 1 # Form of Incentive Stock Option Agreement under Incentive Stock Plan (incorporated herein by reference to the Registrant's Registration Statement on Form S-1 (File No. 333- 202660) as filed with the SEC on March 11, 2015). 10. 7. 2 # Form of Nonqualified Stock Option Agreement under Incentive Stock Plan (incorporated herein by reference to the Registrant's Registration Statement on Form S-1 (File No. 333- 202660) as filed with the SEC on March 11, 2015). 10. 7. 3 # Amended and Restated 2014 Equity Incentive Plan (incorporated herein by reference to the Registrant's Quarterly Report on Form 10-Q as filed with the SEC on August 13, 2021). 10. 7. 4 # Form of Stock Option Grant Notice and Stock Option Agreement under 2014 Equity Incentive Plan (incorporated herein by reference to the Registrant's Registration Statement on Form S-1 File No. 333- 202660) as filed with the SEC on March 11, 2015). 10. 7. 5 # Form of Restricted Stock Unit Grant Notice and Restricted Stock Unit Agreement under 2014 Equity Incentive Plan (incorporated herein by reference to the Registrant's Registration Statement on Form S-1 File No. 333- 202660) as filed with the SEC on March 11, 2015). 10. 7. 6 # Form of Restricted Stock Award Grant Notice and Restricted Stock Award Agreement under 2014 Equity Incentive Plan (incorporated herein by reference to the Registrant's Quarterly Report on Form 10-Q as filed with the SEC on May 14, 2019). 10. 7. 7 # 2021 Employee Stock Purchase Plan (incorporated herein by reference to the Registrant's Quarterly Report on Form 10-Q as filed with the SEC on August 13, 2021). 10. 7. 8 2023 Employment Inducement Award Plan and forms of award agreements thereunder (incorporated herein by reference to the Registrant's Annual Report on Form 10-K as filed with the SEC on April 1, 2024). 10. 8 # Ninth Amended and Restated Non- Employee Director Compensation Policy effective May 3, 2023 (incorporated herein by reference to the Registrant's Quarterly Report on Form 10-Q as filed with the SEC on August 14, 2023). 10. 9 # Form of Indemnification Agreement with the Registrant's directors and executive officers (incorporated herein by reference to the Registrant's Registration Statement on Form S-1 (File No. 333- 202660) as filed with the SEC on March 11, 2015). 10. 10 # Amended and Restated Employment Agreement by and between the Registrant and R. LaDuane Clifton, dated as of June 25, 2015 (incorporated herein by reference to the Registrant's Quarterly Report on Form 10-Q as filed with the SEC on August 14, 2015). 10. 10. 1 # Amendment to Amended and Restated Employment Agreement by and between the Registrant and R. LaDuane Clifton, dated as of October 13, 2015 (incorporated herein by reference to the Registrant's Quarterly Report on Form 10-Q as filed with the SEC on November 13, 2015). 10. 11 # Employment Agreement by and between the Registrant and Christal M. M. Mickle, dated as of May 30, 2014 (incorporated herein by reference to the Registrant's Registration Statement on Form S-1 (File No. 333- 202660) as filed with the SEC on March 11, 2015). 10. 11. 1 # Amendment to Employment Agreement by and between the Registrant and Christal M. M. Mickle, dated as of October 13, 2015 (incorporated herein by reference to Exhibit 10. 1 to the Registrant's Quarterly Report on Form 10-Q filed with the SEC on November 13, 2015). 10. 11. 2 # Agreement Regarding Employment Terms, dated as of May 13, 2023, between the Registrant and Christal M. M. Mickle (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on May 15, 2023). 10. 12 # Amended and Restated Employment Agreement by and between the Registrant and Sven Guenther, dated as of April 13, 2016 (incorporated herein by reference to the Registrant's Quarterly Report on Form 10-Q as filed with the SEC on May 13, 2016). 13 Exhibit No. Description 10. 13 # * Employment Agreement by and between the Registrant and Adrian Quartel, dated as of January 3, 2024. 10. 14 # * Employment Agreement by and between the Registrant and Joshua Schafer, dated as of January 6, 2023. 10. 15 # Employment Agreement by and between the Registrant and Rahsaan Thompson, dated as of June 21, 2024 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q as filed with the SEC on August 13, 2024). 10. 16 # Employment Agreement, effective as of October 10, 2023, between the Registrant and Neil F. McFarlane (incorporated herein by reference to the Registrant's Current Report on 8-K as filed with the SEC on October 10, 2023). 10. 16. 1 # * Amendment to the Employment Agreement by and between the Registrant and Neil F. McFarlane, dated as of May 7, 2024. 10. 17 Lease Agreement, by and between the Registrant and BRE / COH FL LLC, dated as of November 3, 2014 (incorporated herein by reference to the Registrant's Annual Report on Form 10-K as filed with the SEC on March 10, 2017). 10. 18. 1 First Amendment to the Lease Agreement, by and between the Registrant and BRE / COH FL LLC, dated as of April 21, 2015 (incorporated herein by reference to the Registrant's Annual Report on Form 10-K as filed with the SEC on March 10, 2017). 10. 18. 2 Second Amendment to the Lease Agreement, by and between the Registrant and BRE / COH FL LLC, dated as of December 22, 2015 (incorporated herein by reference to the Registrant's Annual Report on Form 10-K as filed with the SEC on March 10, 2017). 10. 18. 3 Third Amendment to the Lease Agreement, by and between the Registrant and BRE / COH FL LLC, dated as of July 15, 2016 (incorporated herein by reference to the Registrant's Annual Report on Form 10-K as filed with the SEC on March 10, 2017). 10. 19 Purchase Agreement, dated February 17, 2020, by and between the Registrant and Lincoln Park Capital Fund, LLC. (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on February 18, 2020). 10. 20 Collaboration and License Agreement, dated as of September 3, 2019, by and between the Registrant and Boston Pharmaceuticals Holdings SA (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on September 4, 2019). 10. 21 Amendment No. 1 to Collaboration and License Agreement, effective as of April 8, 2021, by and between the Company and Commave Therapeutics SA (formerly known as Boston Pharmaceuticals Holdings SA) (incorporated herein by reference to the Registrant's Quarterly Report on Form 10-Q as filed with the SEC on August 13, 2021). 10. 22 Form of Inducement Letter (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on January 26, 2021). 10. 23 Form of Inducement Letter (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on June 23, 2021). 10. 24 Equity Distribution Agreement, dated July 2, 2021, by and among the Company, JMP Securities LLC and RBC Capital Markets, LLC (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on July 2, 2021). 10. 25 + Asset Purchase Agreement by and among the Registrant, Zevra Denmark A / S and Orphazyme A / S, in restructuring, dated May 15, 2022 (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on May 16, 2022). 10. 26 Revolving Loan Agreement dated May 31, 2022, by and among the Registrant and Ameris Bank, as lender (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on June 1, 2022). 10. 27 Bridge Loan Agreement dated as of August 30, 2023, by and between the

Registrant and Acer Therapeutics Inc. (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on August 31, 2023). 10. 27. 1 First Amendment to the Bridge Loan Agreement by and between the Registrant and Acer Therapeutics Inc. (incorporated herein by reference to the Registrant's Annual Report on Form 10-K as filed with the SEC on April 1, 2024). 10. 28 * * * Loan Purchase Agreement dated as of August 30, 2023, by and among the Registrant and Nantahala Capital Management, LLC and the other sellers party thereto (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on August 31, 2023). 10. 29 * * * Note Purchase Agreement dated as of August 30, 2023, by and among the Registrant and Nantahala Capital Management, LLC and the other sellers party thereto (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on August 31, 2023). 10. 30 Registration Rights Agreement dated as of August 30, 2023, by and among the Registrant and each of the sellers party thereto (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on August 31, 2023). 10. 31 Ninth Amended and Restated Non-Employee Director Compensation Policy (incorporated herein by reference to the Registrant's Quarterly Report on Form 10-Q as filed with the SEC on August 14, 2023). 10. 32 Contingent Value Rights Agreement, dated as of November 17, 2023, by and among Zevra Therapeutics, Inc., Computershare, Inc., and Computershare Trust Company, N.A. (incorporated by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on November 20, 2023). 10. 33 † Credit Agreement dated as of April 5, 2024, by and among Zevra Therapeutics, Inc. and HCR Stafford Fund II, L.P., HCR Potomac Fund II, L.P., and Perceptive Credit Holdings IV, LP (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q as filed with the SEC on May 9, 2024). 19 * Zevra Therapeutics, Inc. Amended and Restated Insider Trading and Window Period Policy. 21. 1 Subsidiaries of the Company (incorporated by reference to the Registrant's Annual Report on Form 10-K as filed with the SEC on April 1, 2024). 23. 1 * Consent of Ernst & Young LLP, Independent Registered Public Accounting Firm. 24. 1 * Power of Attorney (included on signature page). 31. 1 * Certification of the Principal Executive Officer pursuant to Rule 13a-14 (a) or Rule 15d-14 (a) of the Securities Exchange Act of 1934, as amended. 31. 2 * Certification of the Principal Financial Officer pursuant to Rule 13a-14 (a) or Rule 15d-14 (a) of the Securities Exchange Act of 1934, as amended. 32. 1 * * Certification of the Principal Executive Officer pursuant to Rule 13a-14 (b) of the Securities Exchange Act of 1934, as amended, and 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002. 32. 2 * * Certification of the Principal Financial Officer pursuant to Rule 13a-14 (b) of the Securities Exchange Act of 1934, as amended, and 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002. 97. 1 # Zevra Therapeutics, Inc. Policy for Recovery of Erroneously Awarded Compensation, Effective October 2, 2023 (incorporated by reference to the Registrant's Annual Report on Form 10-K as filed with the SEC on April 1, 2024). 99. 1 Securities Purchase Agreement, dated as of November 20, 2023, by and between the Registrant and Armistice Capital Master Fund Ltd. (incorporated herein by reference to the Registrant's Current Report on Form 8-K as filed with the SEC on November 20, 2023). 133EXHIBITS, CONTINUEDEXhibit No. Description 101. INS * Inline XBRL Instance Document. 101. SCH * Inline XBRL Taxonomy Extension Schema Document. 101. CAL * Inline XBRL Taxonomy Extension Calculation Linkbase Document. 101. DEF * Inline XBRL Taxonomy Extension Definition Linkbase Document. 101. LAB * Inline XBRL Taxonomy Extension Label Linkbase Document. 101. PRE * Inline XBRL Taxonomy Extension Presentation Linkbase Document. Cover Page Interactive Data File (embedded within the Inline XBRL and contained in Exhibit 101) * Filed herewith * * * Furnished herewith * * * Pursuant to Item 601 (b) (2) of Regulation S-K, schedules and similar attachments have been omitted. The registrant hereby agrees to furnish a copy of any omitted schedule or similar attachment to the SEC upon request. # Indicates management contract or compensatory plan. Certain portions of the exhibit, identified by the mark, " [*] ", have been omitted because such portions contained information that is both (i) not material and (ii) the type that the Registrant treats as private or confidential. † Schedules have been omitted pursuant to Item 601 (a) (5) of Regulation S-K. A copy of any omitted schedule will be furnished to the Securities and Exchange Commission upon request; provided, however, that the parties may request confidential treatment pursuant to Rule 24b-2 of the Exchange Act for any document so furnished. ITEM 16. FORM 10-K SUMMARY 134SIGNATURES Pursuant to the requirements of Section 13 or 15 (d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized. Zevra Therapeutics, Inc. Dated: March 12, 2025 By: /s/ Neil F. McFarlane Neil F. McFarlane President and Chief Executive Officer (Principal Executive Officer) Dated: March 12, 2025 By: /s/ R. LaDuane Clifton R. LaDuane Clifton, MBA, CPA Chief Financial Officer and Treasurer (Principal Financial Officer) 135POWER OF ATTORNEY KNOW ALL BY THESE PRESENTS, that each person whose signature appears below hereby constitute and appoint Neil F. McFarlane and R. LaDuane Clifton, and each of them (with full power to each of them to act alone), as his true and lawful attorneys-in-fact and agents, with full power of substitution and reconstitution in each of them for him and in his name, place and stead, and in any and all capacities, to sign any and all amendments to this report, and to file the same, with all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite or necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their or his substitute or substitutes, may lawfully do or cause to be done by virtue hereof. Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated. Signature Title Date /s/ Neil F. McFarlane Neil F. McFarlane President and Chief Executive Officer (Principal Executive Officer) March 12, 2025 /s/ R. LaDuane Clifton R. LaDuane Clifton, MBA, CPA Chief Financial Officer and Treasurer (Principal Financial Officer) March 12, 2025 /s/ Timothy J. Sangiovanni Timothy J. Sangiovanni, CPA Senior Vice President, Finance and Corporate Controller (Principal Accounting Officer) March 12, 2025 /s/ Thomas D. Anderson Thomas D. Anderson Director March 12, 2025 /s/ John B. Bode John B. Bode Director March 12, 2025 /s/ Douglas W. Calder Douglas W. Calder Director March 12, 2025 /s/ Wendy Dixon Wendy Dixon Director March 12, 2025 /s/ Tamara A. Favorito Tamara A. Favorito Director March 12, 2025 /s/ Alvin Shih Alvin Shih Director March 12, 2025 /s/ Corey Watton Corey Watton Director March 12, 2025 136 Exhibit 4. 5 DESCRIPTION OF THE REGISTRANT'S SECURITIES REGISTERED PURSUANT TO SECTION 12 OF THE SECURITIES EXCHANGE ACT OF 1934 Zevra Therapeutics, Inc. ("we," "our," or "us") has one class of securities registered under Section 12 of the Securities Exchange Act of 1934, as amended, our common stock, par value \$ 0.0001 per share, or common stock. The following description of our capital stock is a summary and does not purport to be complete. It is qualified in its entirety by, and should be read in conjunction with, our amended and restated certificate of incorporation, amended and restated bylaws and applicable Delaware law. Under our amended and restated certificate of incorporation we are authorized to issue up to 250,000,000 shares of common stock and 10,000,000 shares of preferred stock, \$ 0.0001 par value per share, all of which are currently undesignated. Our board of directors may establish the rights and preferences of the undesignated preferred stock from time to time. Voting Rights Each holder of our common stock is entitled to one vote for each share on all matters submitted to a vote of the stockholders, including the election of directors. Under our amended and restated certificate of incorporation and amended and restated bylaws, our stockholders do not have cumulative voting rights. The affirmative vote of the majority (plurality, in the case of the election of directors) of shares present and entitled to vote generally on a subject matter shall be the act of the stockholders. Dividends Subject to preferences that may be applicable to any then-outstanding preferred stock, holders of our common stock are entitled to receive ratably those dividends, if any, as may be declared from time to time by the board of directors out of legally available funds. Liquidation In the event of our liquidation, dissolution or winding up, holders of our common stock will be entitled to share ratably in the net assets legally available for distribution to stockholders after the payment of all of our debts and other liabilities and the satisfaction of any liquidation preference granted to the holders of any then-outstanding shares of preferred stock. Rights and Preferences Holders of our common stock have no preemptive, conversion or subscription rights and there are no redemption or sinking fund provisions applicable to our common stock. The rights, preferences and privileges of the holders of our common stock are subject to, and may be adversely affected by, the rights of the holders of shares of any series of our preferred stock that we may designate in the future. Pursuant to our amended and restated certificate of incorporation, our board of directors has the authority, without further action by the stockholders (unless such stockholder action is required by applicable law or stock exchange listing rules), to designate and issue up to 10,000,000 shares of preferred stock in one or more series, to establish from time to time the number of shares to be included in each such series, to fix the designations, powers, preferences, privileges and relative participating, optional or special rights and the qualifications, limitations or restrictions thereof, including dividend rights, conversion rights, voting rights, terms of redemption and liquidation preferences, any or all of which may be greater than the rights of our common stock, and to increase or decrease the number of shares of any such series, but not below the number of shares of such series then outstanding. Our board of directors, without stockholder approval, can issue preferred stock with voting, conversion or other rights that could adversely affect the voting power and other rights of the holders of our common stock. Preferred stock could be issued quickly with terms designed to delay or prevent a change in control of our company or make removal of management more difficult. Additionally, the issuance of preferred stock may have the effect of decreasing the market price of our common stock and may adversely affect the voting power of holders of our common stock and reduce the likelihood that our common stockholders will receive dividend payments and payments upon liquidation. Our board of directors will fix the designations, voting powers, preferences and rights, as well as the qualifications, limitations or restrictions, of the preferred stock of each series that we offer in the certificate of designation relating to that series. The Delaware General Corporation Law, the law governing corporations in the state of our incorporation, provides that the holders of preferred stock will have the right to vote separately as a class (or, in some cases, as a series) on an amendment to our certificate of incorporation if the amendment would change the par value or, unless the certificate of incorporation provided otherwise, the number of authorized shares of the class or change the powers, preferences or special rights of the class or series so as to adversely affect the class or series, as the case may be. This right is in addition to any voting rights that may be provided for in the applicable certificate of designation. Outstanding Warrants Our warrants include a net exercise provision and contain provisions for the adjustment of the exercise price and the number of shares issuable upon the exercise of each warrant in the event of certain stock dividends, stock splits, reorganizations, reclassifications and consolidations. In January 2021, pursuant to the terms of the underwriting agreement and the December 2020 exchange agreement, we issued warrants to purchase 12,078,361 shares of our common stock, or collectively, the Offering Warrants, in a public offering and in connection with the transactions contemplated under the December 2020 exchange agreement. The Offering Warrants were immediately exercisable and expire on the fifth anniversary of their issuance date, at an exercise price per share of common stock equal to \$ 6.50 per share. The Offering Warrants are exercisable, at the option of each holder, in whole or in part, by delivering to us a duly executed exercise notice, provided that payment in full for the number of shares of our common stock purchased upon such exercise is delivered to us in accordance with the terms of the Offering Warrants. In lieu of making the cash payment otherwise contemplated to be made to us upon such exercise in payment of the aggregate exercise price, the holder may elect instead to receive upon such exercise (either in whole or in part) the net number of shares of common stock determined according to a formula set forth in the Offering Warrants. A holder (together with its affiliates) may not exercise any

portion of the Offering Warrant to the extent that the holder and its affiliates and any other person or entities with which such holder would constitute a Section 13 (d) “group” would own more than 4.99 % of our outstanding common stock immediately after exercise. Except as otherwise provided in the Offering Warrants or by virtue of such holder’s ownership of shares of our common stock, the holders of the Offering Warrants do not have the rights or privileges of holders of common stock with respect to the shares of common stock underlying the Offering Warrants, including any voting rights, until they exercise their Offering Warrants. The Offering Warrants provide that holders have the right to participate in distributions or dividends paid on our common stock. In the event of a fundamental transaction, as described in the Offering Warrants and generally including any reorganization, recapitalization or reclassification of our common stock, the sale, transfer or other disposition of all or substantially all of our properties or assets, our consolidation or merger with or into another person, the acquisition of more than 50 % of our outstanding common stock, or any person or group becoming the beneficial owner of 50 % of the voting power represented by our outstanding common stock, the holders of the Offering Warrants will be entitled to receive upon exercise of the warrants the kind and amount of securities, cash or other property that the holders would have received had they exercised the Offering Warrants immediately prior to such fundamental transaction. In addition, in the event of a fundamental transaction which is approved by our board of directors, the holders of the warrants have the right to require us or a successor entity to redeem the Offering Warrants for cash in the amount of the Black Scholes value of the unexercised portion of the Offering Warrants on the date of the consummation of the fundamental transaction. In the event of a fundamental transaction which is not approved by our board of directors, the holders of the Offering Warrants have the right to require us or a successor entity to redeem the Offering Warrants in the amount of the Black Scholes value of the unexercised portion of the Offering Warrants on the date of the consummation of the fundamental transaction payable in the form of consideration paid to the holders of common stock in such fundamental transaction. The Offering Warrants meet the equity classification requirements and thus are recorded in additional paid-in capital on the balance sheets. In January 2021, pursuant to the terms of an underwriting agreement, we issued to the underwriter a warrant to purchase 806,932 shares of our common stock, or the Underwriter Warrant. The Underwriter Warrant is subject to substantially the same terms and conditions as the Offering Warrants, provided that the exercise price for the Underwriter Warrant is \$ 8.125 per share. In connection with the closing of the underwriter’s partial exercise of its over-allotment option, in February 2021, we issued to the underwriter additional warrants to purchase 18,702 shares of common stock under the same terms as the Underwriter Warrant, collectively these are known as the Underwriter Warrants. In January 2021, we entered into warrant exercise inducement offer letters, or the January 2021 Inducement Transaction, with certain holders of the Offering Warrants pursuant to which such holders agreed to exercise for cash their existing warrants to purchase 6,620,358 shares of our common stock in exchange for our agreement to issue new warrants, or the January 2021 Inducement Warrants, on substantially the same terms as the existing warrants, except as set forth in the following sentence, to purchase up to 7,944,430 shares of our common stock, which is equal to 120 % of the number of shares of our common stock issued upon exercise of the existing warrants. The purchase price of the January 2021 Inducement Warrants was \$ 0.125 per share underlying each January 2021 Inducement Warrant, and the January 2021 Inducement Warrants have an exercise price of \$ 6.36 per share. In June 2021, we entered into warrant exercise inducement offer letters, or the June 2021 Inducement Transaction, with certain holders of the January 2021 Inducement Warrants pursuant to which such holders agreed to exercise for cash their January 2021 Inducement Warrants to purchase 6,117,509 shares of our common stock in exchange for our agreement to issue new warrants, the June 2021 Inducement Warrants, on substantially the same terms as the January 2021 Inducement Warrants, except as set forth in the following sentence, to purchase up to 1,529,379 shares of our common stock, which is equal to 25 % of the number of shares of our common stock issued upon exercise of the January 2021 Inducement Warrants. The purchase price of the June 2021 Inducement Warrants was \$ 0.125 per share underlying each June 2021 Inducement Warrant, and the June 2021 Inducement Warrants have an exercise price of \$ 16.50 per share. On November 22, 2023, we sold an aggregate of 1,382,489 shares of our common stock and accompanying warrants to purchase up to 1,382,489 shares of our common stock at a price of \$ 4.34 per share to a healthcare focused investment fund (the “Investor”) for gross proceeds of approximately \$ 6.0 million and an aggregate of 917,934 shares of our common stock to cancel a warrant held by the Investor to purchase 2,920,306 shares of common stock of Acer Therapeutics Inc. The shares of common stock and warrants were offered and sold to the Investor in a registered direct offering without an underwriter or placement agent. On August 30, 2023, Zevra purchased certain indebtedness of Acer held by Nantahala Capital Management, LLC (“NCM”), certain of its affiliates and certain other parties (collectively with NCM, “Nantahala”) pursuant to a Loan Purchase Agreement and a Note Purchase Agreement. In connection with entering into the Loan and Note Purchase Agreements, Zevra and Nantahala concurrently entered into a registration rights agreement (the “Registration Rights Agreement”), pursuant to which Zevra agreed to file a resale registration statement with respect to the resale of the Zevra common stock issuable under the Loan and Note Purchase Agreements and the Nantahala Note. On February 5, 2024, Zevra filed a registration statement on Form S-3 (File No. 333-276856) registering an aggregate of 2,269,721 shares of Zevra’s common stock that were issued pursuant to the Loan and Note Purchase Agreements. On April 5, 2024, Zevra filed an amendment to the registration statement on Form S-3 (File No. 333-250945) covering the issuance of the shares of Zevra’s common stock issuable upon the exercise of warrants issued in connection with the Merger and remaining unexercised as of the date of the amendment, which was declared effective on April 8, 2024. On June 4, 2024, Zevra filed a registration statement on Form S-3 (File No. 333-279941) under which the Zevra may sell securities, including as may be issuable upon conversion, redemption, repurchase, exchange or exercise of securities, in one or more offerings. The registration statement was declared effective on June 13, 2024. Anti-Takeover Provisions Section 203 of the Delaware General Corporation Law We are subject to Section 203 of the Delaware General Corporation Law, which prohibits a Delaware corporation from engaging in any business combination with any interested stockholder for a period of three years after the date that such stockholder became an interested stockholder, with the following exceptions: • before such date, the board of directors of the corporation approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder; • upon completion of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85 % of the voting stock of the corporation outstanding at the time the transaction began, excluding for purposes of determining the voting stock outstanding, but not the outstanding voting stock owned by the interested stockholder, those shares owned (i) by persons who are directors and also officers and (ii) employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or • on or after such date, the business combination is approved by the board of directors and authorized at an annual or special meeting of the stockholders, and not by written consent, by the affirmative vote of at least 66 2/3 % of the outstanding voting stock that is not owned by the interested stockholder. In general, Section 203 defines a “business combination” to include the following: • any merger or consolidation involving the corporation and the interested stockholder; • any sale, transfer, pledge or other disposition of 10 % or more of the assets of the corporation involving the interested stockholder; • subject to certain exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder; • any transaction involving the corporation that has the effect of increasing the proportionate share of the stock or any class or series of the corporation beneficially owned by the interested stockholder; or • the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits by or through the corporation. In general, Section 203 defines an “interested stockholder” as an entity or person who, together with the person’s affiliates and associates, beneficially owns, or within three years prior to the time of determination of interested stockholder status did own, 15 % or more of the outstanding voting stock of the corporation. Certificate of Incorporation and Bylaws Our amended and restated certificate of incorporation provides for our board of directors to be divided into three classes with staggered three-year terms. Only one class of directors will be elected at each annual meeting of our stockholders, with the other classes continuing for the remainder of their respective three-year terms. The affirmative vote of the majority (plurality, in the case of the election of directors) of shares present and entitled to vote generally on a subject matter shall be the act of the stockholders. Our amended and restated certificate of incorporation and our amended and restated bylaws also provide that directors may be removed by the stockholders only for cause upon the vote of 66 2/3 % or more of our outstanding common stock. Furthermore, the authorized number of directors may be changed only by resolution of the board of directors, and vacancies and newly created directorships on the board of directors may, except as otherwise required by law or determined by the board of directors, only be filled by a majority vote of the directors then serving on the board of directors, even though less than a quorum. Our amended and restated certificate of incorporation and amended and restated bylaws also provide that all stockholder actions must be effected at a duly called meeting of stockholders and eliminates the right of stockholders to act by written consent without a meeting. Our amended and restated bylaws also provide that only our chairman of the board, chief executive officer or the board of directors pursuant to a resolution adopted by a majority of the total number of authorized directors may call a special meeting of stockholders. Our amended and restated bylaws also provide that stockholders seeking to present proposals before a meeting of stockholders or to nominate candidates for election as directors at a meeting of stockholders must provide timely advance notice in writing, and specify requirements as to the form and content of a stockholder’s notice. Our amended and restated certificate of incorporation and amended and restated bylaws provide that the stockholders cannot amend many of the provisions described above except by a vote of 66 2/3 % or more of our outstanding common stock. The combination of these provisions make it more difficult for our existing stockholders to replace our board of directors as well as for another party to obtain control of us by replacing our board of directors. Since our board of directors has the power to retain and discharge our officers, these provisions also make it more difficult for existing stockholders or another party to effect a change in management. In addition, the authorization of undesignated preferred stock makes it possible for our board of directors to issue preferred stock with voting or other rights or preferences that could impede the success of any attempt to change our control. These provisions are intended to enhance the likelihood of continued stability in the composition of our board of directors and its policies and to discourage coercive takeover practices and inadequate takeover bids. These provisions are also designed to reduce our vulnerability to hostile takeovers and to discourage certain tactics that may be used in proxy fights. However, such provisions could have the effect of discouraging others from making tender offers for our shares and may have the effect of delaying changes in our control or management. As a consequence, these provisions may also inhibit fluctuations in the market price of our stock that could result from actual or rumored takeover attempts. We believe that the benefits of these provisions, including increased protection of our potential ability to negotiate with the proponent of an unfriendly or unsolicited proposal to acquire or restructure our company, outweigh the disadvantages of discouraging takeover proposals, because negotiation of takeover proposals could result in an improvement of their terms. Choice of Forum Our amended and restated bylaws provide that (1) unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware (or, if and only if the Court of Chancery of the State of Delaware lacks subject matter jurisdiction, any state court located within the State of Delaware or, if and only if all such state courts lack subject matter jurisdiction, the federal district court for the District of Delaware) shall be the sole and exclusive forum for the following types of actions or proceedings under Delaware statutory or common law: (A)

any derivative action or proceeding brought on behalf of us; (B) any action or proceeding asserting a claim of breach of a fiduciary duty owed by any current or former director, officer or other employee of us, to us or our stockholders; (C) any action or proceeding asserting a claim against us any current or former director, officer or other employee of us, arising out of or pursuant to any provision of the Delaware General Corporation Law, or the DGCL, our amended and restated certificate of incorporation or our amended and restated bylaws (as each may be amended from time to time); (D) any action or proceeding to interpret, apply, enforce or determine the validity of our amended and restated certificate of incorporation or our amended and restated bylaws (including any right, obligation, or remedy thereunder); (E) any action or proceeding as to which the DGCL confers jurisdiction to the Court of Chancery of the State of Delaware; and (F) any action or proceeding asserting a claim against us any director, officer or other employee of us, governed by the internal affairs doctrine, in all cases to the fullest extent permitted by law and subject to the court's having personal jurisdiction over the indispensable parties named as defendants, provided that this provision shall not apply to suits brought to enforce a duty or liability created by the Securities Act or the Exchange Act or any other claim for which the federal courts have exclusive jurisdiction; (2) unless we consent in writing to the selection of an alternative forum, to the fullest extent permitted by law, the federal district courts of the United States of America shall be the exclusive forum for the resolution of any complaint asserting a cause of action arising under the Securities Act; and (3) any person or entity holding, owning or otherwise acquiring any interest in any of our securities shall be deemed to have notice of and consented to the provisions of our amended and restated bylaws. Listing on the Nasdaq Stock Market Our common stock is listed on the Nasdaq Global Select Market under the symbol "ZVRA." Exhibit 10. 13 EMPLOYMENT AGREEMENT ADRIAN QUARTEL EFFECTIVE AS OF JANUARY 3, 2024 This EMPLOYMENT AGREEMENT ("Agreement") is made and entered into effective as of JANUARY 3, 2024, by and between ZEVRA THERAPEUTICS, INC., a Delaware corporation (the "Company"), including its affiliates, parent, subsidiaries, successors, and assigns and Adrian Quartel ("Executive") (each being a "Party" hereto and together constituting the "Parties"). WHEREAS, the Company desires to employ the Executive as its Chief Medical Officer under the terms and conditions set forth below. Now, THEREFORE, in consideration of the mutual promises and covenants contained herein, and for other good and valuable consideration, the receipt, adequacy and sufficiency of which is hereby acknowledged, the Parties hereto agree as follows: 1. EMPLOYMENT. A. Employment. Company hereby desires to employ Executive and Executive hereby accepts such employment with Company as its Chief Medical Officer or in such other capacities as Company shall reasonably determine from time to time, upon the terms and conditions set forth in this Agreement. B. Effective Date and Term. Company's employment of Executive under this Agreement shall commence effective as of January 3, 2024, (the "Effective Date"), and continue until the Date of Termination (defined in Section 4 (A)) (hereinafter such period of time from the commencement until termination of employment shall be referred to as the "Employment Term"). C. Duties of Executive. During the Employment Term, all of the following shall apply: Executive shall carry out, perform and comply with such reasonable and lawful orders, directions, and written rules and policies (including those rules and policies memorialized in meeting minutes) as are assigned or set by Company's Chief Executive Officer ("CEO") from time to time. Executive shall report to, receive directions from and be reviewed by the ("CEO"). Executive's duties shall include the duties and responsibilities commonly associated with and are appropriate for an individual of Executive's or a similar position of a company similar to Company. Subject to the limitations of Section 4 (E) (3) (iv), the ("CEO") retains the right to modify Executive's job title and responsibilities pursuant to the legitimate business needs of Company. D. Duty of Loyalty. During the Employment Term, Executive shall not, without the prior written consent of the CEO, accept other employment or render or perform other services for compensation. Executive shall devote Executive's full business time and attention and Executive's best efforts to the faithful performance of Executive's duties as an officer and employee of Company. Executive's expenditure of reasonable amounts of time for teaching, personal business, or on behalf of charitable or professional organizations shall not be deemed a breach of this Agreement, provided such activities do not materially interfere with the performance of Executive's duties and responsibilities hereunder. E. Place of Performance. Executive's principal place of employment during the Employment Term will be in El Cerrito, CA. Notwithstanding the foregoing, Executive understands and agrees that Executive's presence may be required at other Company worksites, or Executive may be required to travel for business, in each case, in accordance with Executive's duties and responsibilities under this Agreement, as business needs require or may change over time and as reasonably requested by the ("CEO"). 2. COMPENSATION AND BENEFITS. In consideration of the services to be rendered by Executive pursuant to this Agreement, as well as Executive's covenants set forth in this Agreement, Company shall pay to Executive the following compensation, which shall be the entire and exclusive compensation for all of Executive's services rendered and other obligations taken on Company's behalf: A. Annual Base Salary. During the Employment Term, Company shall pay to Executive an annualized base salary of \$ 485,000 (the "Base Salary"). For calendar years in which Executive is employed for less than the full year, the Base Salary shall be prorated and accrue on a per diem basis for only those days on which Executive was employed during the Employment Term. The Base Salary will be paid by Company in equal installments according to Company's customary payroll practices, but in any event not less frequently than monthly, and shall be subject to all mandatory and voluntary payroll deductions. Executive's Base Salary shall be reviewed periodically by the Company's Board of Directors ("Board of Directors") or the Compensation Committee of the Board of Directors (the "Compensation Committee") if so designated and may be appropriately increased from time to time in the sole discretion of Board of Directors or the Compensation Committee, as applicable. B. Incentive Compensation. During the Employment Term, Executive shall be entitled to participate in all short-term and long-term incentive programs established by Company, at such levels as the Board of Directors or Compensation Committee determines. Executive's annual short-term incentive opportunity target shall be no less than 40 % of the Base Salary, as such percentage may be increased from time to time (the "Target Annual Bonus"). The actual amount of such annual incentive compensation shall be determined in accordance with the applicable plans based on 1) the determination of the Company as to whether the Executive has achieved relevant performance goals and 2) Company performance objectives established in advance by the Board of Directors or the Compensation Committee, taking into account input from the CEO. Such actual annual short term incentive compensation amount may be more or less than the target amount and no incentive is guaranteed. C. Upon the terms and conditions set forth in the following subsection, and subject to the approval of the Board of Directors or Compensation Committee, the Company shall grant to Executive an option to purchase shares of Company's common stock ("Common Stock") pursuant to and in accordance with the terms and conditions of Company's Amended and Restated 2014 Equity Incentive Plan, or a successor plan (the "Plan") and Company's form of option or stock grant agreement, as applicable. On or after the Effective Date, Company shall grant Executive stock options to purchase 300,000 shares of Common Stock (the "Option"). The Option shall have an exercise price equal to the fair market value of the Common Stock as of the grant date of the Option. The Option shall vest in equal shares over a four-year period commencing from the date of grant and, with 25 % of the options vesting on the one-year anniversary of the Effective Date, and then the remainder of unvested options vesting on an annual basis thereafter until such time that all such shares are fully vested and exercisable, provided, that the Option, and each other outstanding equity award granted to Executive, shall accelerate so as to be fully vested and immediately exercisable immediately prior to any Change in Control (as defined in the Plan) of the Company. D. Retirement, Welfare and Other Benefit Plans and Programs. During the Employment Term, Executive shall be entitled to participate in the employee retirement and welfare benefit plans and programs made available to Company's other senior level executives as a group, as such retirement and welfare plans may be in effect from time to time and subject to the eligibility requirements of such plans, including but not limited to, life, health and disability plans, and a 401 (k) retirement plan and similar or other plans. During the Employment Term, Executive shall be eligible for Paid Time off and holidays in accordance with the Company's policies. Nothing in this Agreement or otherwise shall prevent Company from amending or terminating after the Effective Date any retirement, welfare or other employee benefit plans, programs, policies or perquisites from time to time as Company deems appropriate, and Executive's participation in any such plan, program, policy and perquisite shall be subject to the terms, provisions, rules and regulations thereof. E. Reimbursement of Expenses. During the Employment Term, Company shall reimburse Executive for all reasonable and necessary business expenses that Executive incurs while performing Executive's duties under this Agreement in accordance with Company's general policies of expense reimbursement in effect from time to time. 3. COMPANY POLICIES AND PROCEDURES. Executive agrees to observe and comply with the reasonable and lawful policies and procedures of Company as adopted by the Board of Directors in writing or reflected in the formal minutes of the Board of Directors or committee thereof, respecting performance of Executive's duties and to carry out and to perform the reasonable and lawful orders and directions stated by Company to Executive, from time to time, either orally or in writing. 4. TERMINATION. A. Notice of Termination and Date of Termination. Each Party must give written notice to the other of the intent to terminate this Agreement and Executive's employment hereunder ("Notice of Termination"). The Notice of Termination must specify a date of termination of employment, which shall incorporate any period of notice required by this Section 4 ("Date of Termination"). Executive may terminate Executive's employment at any time by giving the Company Notice of Termination at least 30 days prior to the Date of Termination designated by Executive. Company may terminate Executive's employment at any time by giving Executive a Notice of Termination at least 30 days prior to the Date of Termination designated by the Company. B. Executive's Death or Total Disability. Executive's employment under this Agreement shall terminate upon the date of Executive's death. Additionally, if, during the Employment Term, Executive suffers a Total Disability (as defined in Section 4 (E) (3) (iii)), then Company may terminate Executive's employment under this Agreement by giving Executive a Notice of Termination specifying the Date of Termination. Upon such termination due to death or Total Disability, Company shall pay to Executive or Executive's estate (i) any Base Salary that has fully accrued but not been paid as of the effective date of such termination, as well as any vested and accrued employment benefits subject to the terms of any applicable employment benefit arrangements and applicable law ("Accrued Benefits") and (ii) a prorated bonus for the year in which Executive's death or Disability occurs, which bonus shall be calculated and paid in the same manner as set forth below in Section 4 (E) (I) (b). All other rights and benefits of Executive and Executive's dependents hereunder shall terminate upon such termination, except for any right to the continuation of benefits otherwise provided by law. C. Company with Cause. Company may terminate with Cause (as defined in Section 4 (E) (3) (i)) Executive's employment hereunder at any time. In order to terminate Executive's employment hereunder with Cause, Company must give Notice of Termination to Executive specifying the Cause and the Date of Termination (as defined in Section 4 (A)). Upon termination with Cause, Company shall pay to Executive all Accrued Benefits. All other rights and benefits of Executive hereunder shall terminate upon such termination, except for any right to the continuation of benefits otherwise provided by law. D. By Executive without Good Reason or by Mutual Agreement. Executive may terminate Executive's employment without Good Reason (as defined in Section 4 (E) (3) (iv)) at any time by giving Company Notice of Termination at least 30 days prior to the Date of Termination designated by Executive. In addition, this Agreement may be terminated at any time by written mutual agreement of the Parties with or without notice. Upon termination of Executive's employment by Executive without Good Reason or termination by mutual agreement of the parties, Company shall pay to Executive all Accrued Benefits. All other rights and benefits of Executive hereunder shall terminate upon such termination, except for any right to the continuation of benefits otherwise provided by law.

E. Without Cause by Company or For Good Reason by Executive. Company may terminate Executive's employment at any time without Cause by giving Executive a Notice of Termination at least one day prior to the Date of Termination, and Executive may terminate Executive's employment for Good Reason by giving Company a Notice of Termination in accordance with Section 4 (A). Upon termination of Executive's employment without Cause by Company or for Good Reason by Executive, Company will pay Executive (1) all Accrued Benefits and (2) the severance compensation payable under Section 4 (F) (I) hereof, to the extent applicable. All other rights and benefits of Executive hereunder shall terminate upon such termination, except for any right to the continuation of benefits otherwise provided by law. 1. In the event that Company terminates Executive's employment without Cause or Executive terminates his or her employment for Good Reason, and contingent upon the Executive's execution of a release of claims in the form attached hereto as Exhibit A, then Company shall pay to Executive as severance compensation, the following) a. Executive's Base Salary (at the rate payable at the time of such termination) for a period of twelve (12) months following the Date of Termination. Such severance compensation shall be paid by Company in equal installments according to Company's customary payroll practices, with the first payment made on the first regularly scheduled pay day immediately following the effective date of termination, but in any event payments shall be made not less frequently than monthly; provided, however, that (a) Company shall pay such severance in a lump sum on the first regularly scheduled pay day immediately following the effective date of termination if such termination of employment occurs upon or within one year following a Sale, and the Sale constitutes a "change in control event" as defined under Section 409A of the Internal Revenue Code of 1986, as amended (the "Code"), to the extent required to comply with Section 409A of the Code; and (b) notwithstanding the preceding clause (a), if the Sale is not a "change in control event" as defined under Section 409A of the Code and penalty taxes may result under Section 409A if such severance compensation is paid in a lump sum, then the severance compensation will be paid in equal installments according to Company's customary payroll practices, with the first payment made on the first regularly scheduled pay day immediately following the effective date of termination, but in any event payments shall be made not less frequently than monthly. b. To the extent Executive is entitled to an annual incentive compensation award for the year of termination in which the Date of Termination occurs based upon the determination of the Company in its sole discretion that the Executive has achieved relevant performance goals and Company performance objectives, as established in advance by the Board of Directors or the Compensation Committee, have occurred, Executive shall receive a pro rata Target Annual Bonus award payment for the year in which the Date of Termination occurs (measured at the target level, identified "goal" target or other similar target, without taking into account any incentive override for above goal performance, or any project-specific or other non-standard incentives), which shall be paid on the first regularly scheduled pay day immediately following the Date of Termination. The pro rata amount shall be determined as the Target Annual Bonus in effect for the year in which the Date of Termination occurs, multiplied by a fraction, the numerator of which is the number of days in which Executive was employed by Company during the year in which the Date of Termination occurs, including the Date of Termination, and the denominator of which is 365. c. During the 12 month period following the Date of Termination, if Executive timely elects continued coverage under Section 4980B of the Code ("COBRA"), Company will reimburse Executive for the monthly COBRA cost of continued health coverage under the health plans of Company paid by Executive for Executive, and, if applicable, Executive's spouse and dependents, less the amount that Executive would be required to contribute for health coverage if Executive were an active employee of Company; provided that such reimbursements shall not continue beyond the first to occur of (x) the date on which Executive fails to pay the COBRA cost of continuation coverage under the health plans of Company and (y) the date on which Executive is eligible for substantially similar coverage from a subsequent employer. These reimbursements will commence on the first regularly scheduled pay day immediately following the Date of Termination and will be paid on the first regularly scheduled pay day of each month, provided that Executive demonstrates proof of payment of the applicable premiums prior to the applicable reimbursement payment date. d. The vesting of each outstanding equity award granted to Executive will accelerate so that such awards will be fully vested as of the Date of Termination. If any equity awards vest based on the attainment of performance goals, the performance goals will be deemed to have been met as of the Date of Termination, unless such greater amount of vesting is provided for in the applicable award agreements. 2. Payment of the severance compensation shall be subject to all mandatory and voluntary payroll deductions. In the event that Executive materially breaches any of his or her post-employment covenants or obligations set forth in this Agreement and fails to cure such breach within fifteen (15) calendar days following receipt from Company of notice to cure such breach, then the payment of severance compensation pursuant to this section shall terminate immediately and permanently. During the period that Executive is paid the foregoing severance compensation, Executive shall not further accrue any other benefits under any benefit plans of which Executive was a participant while employed by Company, except as otherwise required by applicable federal or state law, by the express terms of this Agreement, or by the express terms of such benefit plans. 3. For purposes of this Agreement: i. Executive's employment will be deemed to have been terminated by Company "with Cause" if the termination arises from or relates to a determination by the Board of Directors that (a) Executive performed an act or acts of willful and material malfeasance or misconduct with respect to the performance of Executive's duties and responsibilities as an employee and officer of Company or under this Agreement that results in material harm to Company that remains uncorrected for fifteen (15) days after receipt of written notice by Company to Executive; or (b) except as otherwise provided in Section 1 (D), Executive's continued failure to devote his or her full business time and attention and his or her best efforts to the faithful performance of his or her material duties and responsibilities (other than a failure resulting from Executive becoming disabled) that remains uncorrected for fifteen (15) days after receipt of written notice by Company to Executive; or (c) Executive's material breach of any material provision of this Agreement that remains uncorrected for fifteen (15) days after receipt of written notice by Company to Executive; or (d) Executive commits an act of fraud, embezzlement, misappropriation, or personal dishonesty against Company; or (e) the conviction, or plea of nolo contendere, of Executive to a crime constituting a felony; or (f) Executive engaged in discrimination, harassment, or other behaviors that would be reasonably likely to bring the company negative publicity or embarrassment. ii. Executive's employment shall be deemed to have been terminated by Company "without Cause" if such termination does not arise from or relate to any of acts or omissions constituting "Cause" as set forth in clauses (a) through (f) of the immediately preceding subsection, and such termination is not the result of Executive's death or Executive suffering a Total Disability. iii. Executive shall be deemed to have suffered a "Total Disability" if (a) Executive is granted long-term disability benefits or (b) Executive becomes physically or mentally disabled so that Executive is unable to perform the essential functions of Executive's job, with or without reasonable accommodation in accordance with the Americans with Disabilities Act and its amendments, for a period of one hundred eighty (180) consecutive days. iv. Executive shall be deemed to have terminated his or her employment for "Good Reason" if Executive terminates his or her employment on account of the occurrence of one or more of the following without Executive's consent: a. A material diminution by Company of Executive's authority, duties or responsibilities the duration of which is greater than fifteen (15) days and which is not the result of Executive's acts or omissions which constitute "Cause" as set forth in clauses (a) through (f) of subsection 4 (E) (3) (i); b. A material change in the geographic location at which Executive must perform services under this Agreement (which, for purposes of this Agreement, means the requirement that Executive work from at a location more than fifty (50) miles from the location at which Executive performs services immediately prior to the relocation); c. A material diminution in the Executive's Base Salary which is not the result of Executive's acts or omissions which constitute "Cause" as set forth in clauses (a) through (f) of subsection 4 (E) (3) (i); or d. Any action or inaction that constitutes a material breach by Company of this Agreement, including the failure of Company to pay any amounts due under Section 2 or the failure of Company to obtain from its successors the express assumption and agreement required under Section 16 (A). Executive must provide Notice of Termination (as defined below) for Good Reason to Company within sixty (60) days after the event constituting Good Reason. Company shall have a period of thirty (30) days in which it may correct the act or failure to act that constitutes the grounds for Good Reason as set forth in Executive's Notice of Termination. If Company does not correct the act or failure to act, then, in order for the termination to be considered a Good Reason termination, Executive must terminate his or her employment for Good Reason by giving Notice of Termination with a Date of Termination designated by Executive which is at least thirty (30) days after the date on which the Notice of Termination is given but not more than ninety (90) days after the end of the cure period. 4. In the event Company terminates Executive's employment with Cause, Executive voluntarily terminates his or her employment with Company other than for Good Reason, or such employment is terminated by mutual agreement or as the result of Executive's death or Total Disability, Executive shall not be entitled to payment of any severance compensation under this Agreement. F. Cooperation after Notice of Termination. Following any Notice of Termination by either Company or Executive, Executive, if requested by Company, shall reasonably cooperate with Company in all matters relating to the winding up of Executive's pending work on behalf of Company and the orderly transfer of any such pending work to other employees of Company as may be reasonably designated by Company following the Notice of Termination. Executive shall not receive any additional compensation during the Employment Term, other than Executive's Base Salary, for any services that Executive renders as provided in this Section 4 (F), provided that, if Executive is not receiving any severance compensation pursuant to this Section 4, for each day that Executive performs services under this Section 4 (F) after the Employment Term, Executive shall be reimbursed for his or her reasonable out-of-pocket expenses and Company shall pay Executive a per diem cash amount equal to 130 % of Executive's Base Salary rate on the Date of Termination. G. Surrender of Records and Property. Upon termination of employment, Executive shall promptly turn-over or deliver to Company at Company's expense all property of Company in Executive's possession, custody, or control, including without limitation thereto: records (paper and electronic), files (paper and electronic), documents (paper and electronic), electronic mail (e-mail) on Company accounts, letters, financial information, memorandum, notes, notebooks, contracts, project manuals, specifications, reports, data, tables, calculations, data, tables, electronic information, and computer disks, in all cases whether or not such property constitutes Confidential Information (as defined below), and all copies thereof; all keys to motor vehicles, offices or other property of Company; and all computers, cellular phones and other property of Company. If any of the foregoing property of Company is electronically stored on a computer or other storage medium owned by Executive or a friend, family member or agent of Executive, such information shall be copied onto a computer disk to be delivered to Company together with a written statement of Executive that the information has been deleted from such person's computer or other storage medium. 5. SECTION 280G OF THE CODE. A. The following terms shall have the meanings set forth below for purposes of this Section 5: 1. "Accounting Firm" means a certified public accounting firm chosen by the Company. 2. "After-Tax" means after taking into account all applicable Taxes and Excise Tax. 3. "Excise Tax" means the excise tax imposed by Section 4999 of the Code, together with any interest or penalties imposed with respect to such excise tax. 4. "Safe Harbor Amount" means 2.99 times Executive's base amount," within the meaning of Section 280G (b) (3) of the Code. 5. "Taxes" means all federal, state, local and foreign income, excise, social security and other taxes, other than the Excise Tax, and any associated interest and penalties. B. If any payment, individually or in the aggregate, due to Executive under this Agreement ("a Payment") is subject to the Excise Tax, then such Payment shall be adjusted, if necessary, to equal the greater of (x) the Safe Harbor Amount or (y) the Payment, whichever results in such Executive's receipt, After-Tax, of the greatest amount of the Payment. The reduction of Executive's Payments pursuant to this

Section 5. B., if applicable, shall be made by first reducing the acceleration of Executive's stock option vesting (if any), the acceleration of the vesting of Executive's other equity securities (if any), and then by reducing any cash payments owed to the Executive, in that order. All determinations required to be made under this Section 5, including whether and in what manner any Payments are to be reduced pursuant to the second sentence of Section 5. B., and the assumptions to be utilized in arriving at such determinations, shall be made by the Accounting Firm, and shall be binding upon the Company and Executive, except to the extent the Internal Revenue Service or a court of competent jurisdiction makes an inconsistent final and binding determination. The Accounting Firm shall provide detailed supporting calculations both to the Company and Executive within fifteen (15) business days after receiving notice from Executive that there has been a Payment or such earlier time as may be requested by the Company. All fees and expenses of the Accounting Firm shall be borne solely by the Company. 6. INTELLECTUAL PROPERTY. A. Work Product. During the Employment Term, Executive will be expected to perform duties which may lead to and include the discovery, creation, development, or expression of inventions, discoveries, developments, modifications, procedures, ideas, innovations, systems, programs, know-how, literary properties, chemical or biological data, computer software, improvements, processes, methods, formulas, systems, creative works and techniques (collectively, hereinafter "Work Product"). B. Assignment. Executive hereby assigns and transfers to Company, and agrees that Company shall be the sole owner of all Work Product conceived, developed or made by Executive (alone or with others), whether during working hours or at any other time, in whole or in part during Executive's employment with Company (including prior to, during and after the Employment Term), whether at the request or upon the suggestion of Company or otherwise, which are useful in, or directly or indirectly related to Company's business or any contemplated business of Company or which relate to, or are conceived, developed, or made in the course of, Executive's employment or which are developed or made from, or by reason of knowledge gained from, such employment. C. Work for Hire. Executive hereby agrees that all work or other material containing or reflecting any Work Product shall be deemed a work made for hire under the U. S. Copyright Act. To the extent any such Work Product is determined that it is not a work made for hire, Executive hereby assigns to Company all of Executive's right, title and interest, including all rights of copyright, patent, trade secret and other intellectual property rights, in, to and under the Work Product. D. Continuing Obligations. Executive agrees to disclose promptly all Work Product conceived or made by Executive (alone or with others) to which Company is entitled to as provided herein, and agrees not to disclose such Work Product to others except as required by law or as is reasonably necessary or appropriate in connection with the performance of Executive's duties as an employee and officer of Company, without the express written consent of Company. Executive further agrees that during the Employment Term and at any time thereafter, Executive will, upon request by Company, provide all assistance reasonably required to protect, perfect and use the Work Product, including execution of proper assignments to Company of any and all such Work Product to which Company is entitled, execution of all papers and performance all other lawful acts which Company may deem necessary or advisable for the preparation, prosecution, procurement and maintenance of trademarks, copyrights and or patent applications, and execution of any and all proper documents as shall be required or necessary to vest title in Company to such Work Product. It is understood that all expenses in connection with such trademarks, copyrights or patents, and all applications related thereto, shall be borne by Company, however Company is under no obligation to protect such Work Product, except at its own discretion and to such extent as Company shall deem desirable. Executive shall not receive any additional compensation during the Employment Term, other than Executive's Base Salary, for any services that Executive renders as herein provided. For each day that Executive performs services under this Section 6 (0) after the Employment Term, Executive shall be reimbursed for his or her reasonable out-of-pocket expenses and Company shall pay Executive a per diem cash amount equal to 130 % of Executive's Base Salary rate on the Date of Termination. 7. CONFIDENTIAL INFORMATION. A. Confidential Information. The term "Confidential Information" means all information related to Company's business, which exists or is developed at any time while Executive is an employee, officer and / or director of Company (including prior to, during and after the Employment Term), including without limitation: (i) strategic and development plans, financial information, equity investors, business plans, co-developer identities, business relationships, business records, project records, market reports, information relating to processes and techniques, technology, research, data, development, trade secrets, know-how, discoveries, ideas, concepts, specifications, diagrams, inventions, technical and statistical data, designs, drawings, models, flow charts, engineering, products, invention disclosures, patent applications, chemical and molecular structures, synthetic pathways, biological data, safety data, clinical data, developmental data, development route, manufacturing processes, synthetic techniques, analytical data, Work Product, and any and all other proprietary and sensitive information, disclosed or learned, whether oral, written, graphic or machine-readable, whether or not marked confidential or proprietary, whether or not patentable, whether or not copyrightable, including the manner and results in which any such Confidential Information may be combined with other information or synthesized or used by Company, which could prove beneficial in enabling a competitor to compete with Company; or (ii) information that satisfies the definition of a "trade secret" as that term is defined in the Uniform Trade Secrets Act, as amended from time to time; provided, however, that information that is in the public domain (other than as a result of a breach by Executive of this Section 7), approved for release by Company, or lawfully obtained from a third party who is not known by Executive (after Executive's reasonable inquiry) to be bound by a confidentiality agreement with Company is not Confidential Information. The Executive understands that the above list is not exhaustive, and that Confidential Information also includes other information that is marked or otherwise identified as confidential or proprietary, or that would otherwise appear to a reasonable person to be confidential or proprietary in the context and circumstances in which the information is known or used. B. Acknowledgements. Executive acknowledges and agrees that: (1) Executive's position with Company is one of high trust and confidence, (2) the Confidential Information constitutes a valuable, special and unique asset which Company uses to obtain a competitive advantage over its competitors, (3) Executive's protection of such Confidential Information against unauthorized use or disclosure is critically important to Company in maintaining its competitive advantage, (4) all Confidential Information is the property of Company, and (5) Executive shall acquire no right, title or interest in, to or under any such Confidential Information. C. Nondisclosure. Executive promises that, unless legally compelled to do so, Executive will never (before, during or after the Employment Term): (1) disclose any Confidential Information to any person other than (i) an officer or director of Company; or (ii) any other person who is bound by nondisclosure restrictive covenants to Company and to whom disclosure of such Confidential Information is reasonably necessary or appropriate in connection with performance by Executive of Executive's duties as an employee and officer of Company; or (2) use any Confidential Information except to the extent it is reasonably necessary or appropriate in connection with performance by Executive of Executive's duties as an employee and officer of Company. Executive promises to take all reasonable precautions to prevent the inadvertent or accidental disclosure or misuse of any Confidential Information. In the event Executive receives a request to disclose all or any part of the Confidential Information under the terms of a subpoena or order issued by a court or governmental body, Executive promises, to the extent permissible by law, to (a) notify Company immediately of the existence, terms and circumstances surrounding such request, (b) consult with Company on the advisability of taking legally available steps to resist or narrow such request, (c) if disclosure is required, furnish only such portion of the Confidential Information as Executive is legally compelled to disclose; and (e) exercise Executive's best efforts to obtain an order or other reliable assurance that confidential treatment will be accorded to the disclosed Confidential Information. 8. NONCOMPETITION. A. Restricted Period. As used in this Agreement, the term "Restricted Period" means throughout the Employment Term and continuing until the end of the twelve month period following the date on which Executive's employment with Company is terminated for any reason (whether voluntary or involuntary). B. Prohibition on Competition. Executive hereby covenants and agrees that, until the expiration of the Restricted Period, Executive will not serve as an officer, director, employee, independent contractor, consultant or agent of, or have any ownership interest in, any business entity which engages in any activities anywhere in the world that are materially similar to or competitive with Company's pharmaceutical product development and Commercialization (as defined below) activities in the fields of (i) opioid products for the treatment of pain, (ii) stimulant products for the treatment of ADHD, and / or (iii) such other products which Company is actively and demonstrably developing and / or Commercializing at the time Executive's employment is terminated. If a court of competent jurisdiction finds this non-competition provision invalid or unenforceable due to unreasonableness in time, geographic scope, or scope of Company's business, then Executive agrees that such court shall interpret and enforce this provision to the maximum extent that such court deems reasonable. For purposes of this Agreement, "Commercialize" or "Commercialization" means the sales and marketing phase with regard to a specific drug candidate in a specific country or region following the regulatory approval of said drug candidate in the applicable country or region. C. Exceptions. Executive's ownership of less than 5 % of the stock of a company that is competitive with the activities of Company as described in Section 8 (B) and listed on a national securities exchange shall not be deemed to violate the prohibitions of Section 8 (B). Also, Executive shall not be considered to have violated Section 8 (B) with respect to the purchasing entity if there is a Sale and Executive becomes an employee, officer, director or shareholder of the purchasing entity. The term "Sale" means the sale of more than 50 % of the equity of Company, a merger of Company with an entity the equity of which after the merger the stockholders of Company immediately prior to such merger own less than 50 %, or the sale of all or substantially all of the assets of Company, in any case to a person or entity not affiliated with Company. Neither a recapitalization nor change of form of Company shall be considered a Sale. Additionally, a "Sale" shall not be deemed to have occurred as a result of a lender exercising any of its remedies in connection with the occurrence or continuation of an event of default under that certain Facility Agreement, to be dated as of or around May 30, 2014, by and between Company and Deerfield Private Design Fund III, L.P. or any other indebtedness of the Company. 9. NON SOLICITATION OF EMPLOYEES. Until the expiration of the Restricted Period, Executive shall not, directly or indirectly, either on Executive's own account or for any other person or entity: (a) employ, solicit, induce, advise, or otherwise convince, interfere with Company's employment of, or offer employment to, any employee of Company; (b) employ or otherwise interfere with Company's engagement with, or offer employment to, any consultant of Company; or (c) induce or attempt to induce any such employee or consultant to breach their employment agreement or relationship or consulting agreement or relationship with Company; provided, however, that Executive shall not be in breach of this provision if any such employee or consultant, without inducement or solicitation by Executive, applies for employment at Executive's subsequent employer in response to a general advertisement soliciting employment. 10. REASONABLENESS OF RESTRICTIVE COVENANTS. Executive has carefully read and considered the restrictive covenants set forth in Sections 7-9 hereof, and understands Executive's obligations thereunder, the limitations such obligations will impose upon Executive after termination of Executive's employment with Company, and that the Restricted Period extends for 12 months after the termination of Executive's employment. Executive has had full opportunity to review with Executive's personal attorney this Agreement, including Sections 7-9, before executing the Agreement. Executive agrees that, as a result of Executive's position with Company, the length of the Restricted Period and each restriction set forth in Sections 7, 8 and 9 herein are (1) fair and reasonable, (2) reasonably required for the protection of the legitimate business interests and goodwill established by Company, and (3) not overly broad or unduly burdensome to Executive. Executive acknowledges that Executive's compliance with Executive's obligations and restrictive covenants set forth in this Agreement

is necessary to protect the business and goodwill of Company. Executive agrees that Executive's breach of Executive's obligations and / or restrictive covenants under this Agreement may irreparably and continually damage Company, for which money damages may not be adequate. Consequently, Executive agrees that in the event that Executive breaches or threatens to breach any of the covenants or agreements contained herein, Company shall be entitled to: (a) seek injunctive relief to prevent or halt Executive from breaching this Agreement; and (b) money damages as determined appropriate by a court of competent jurisdiction. Executive hereby agrees that injunctive relief may be granted by a court of competent jurisdiction without the necessity of Company to post bond, or if required to post bond, Executive agrees that the lowest amount permitted shall be adequate. Nothing in this Agreement shall be construed to prohibit Company from pursuing any other remedy available or from seeking to enforce any restrictive covenants to a lesser extent than set forth herein. The Parties agree that all remedies shall be cumulative. 11. No PRIOR RESTRICTIONS. Executive hereby represents and warrants to Company that the execution, delivery, and performance by Executive of Executive's duties under this Agreement do not violate any provision of any agreement or restrictive covenant which Executive has with any former employer or any other entity. Executive further agrees to honor and inform Company of any and all post - employment obligations Executive has to any former employer or any other entity with which Executive has or had a business relationship. 12. NOTICES. Any notice or communication required or permitted to be given hereunder may be delivered by hand, deposited with an overnight courier, sent by confirmed email, confirmed facsimile, or mailed by registered or certified mail, return receipt requested, postage prepaid, in the case of Company, addressed to Company's principal office marked attention to Company's president, and in the case of Executive, addressed to Executive's personal address as appearing in Company's payroll records, and in each case to such other mail address, e- mail address, or facsimile number as may hereafter be furnished in writing by either Party to the other Party. Such notice will be deemed to have been given as of the date it is hand delivered, emailed, faxed or three days after deposit in the U. S. mail. 13. LIKENESS. Executive hereby grants to Company a license to use, without further compensation or approval from Executive, Executive's name, image, portrait, voice, likeness and all other rights of publicity, or any derivative or modification thereto that Company may create, in any and all mediums, now known or hereafter developed, provided that such use is in relation to Company's business and consistent with professional business standards, and does not disparage or denigrate Executive. Provided, however, if written notice is provided to Company by Executive following termination of Executive's employment requesting that Company cease using Executive's likeness, Company has 30 days to cease using Executive's likeness in the manner set forth in the notice. 14. SECTION 409A: SECTION 162 (M). A. This Agreement is intended to comply with Section 409A of the Code and its corresponding regulations, or an exemption, and payments may only be made under this Agreement upon an event and in a manner permitted by Section 409A of the Code, to the extent applicable. Notwithstanding anything in this Agreement to the contrary, if required by Section 409A of the Code, if Executive is considered a " specified employee" for purposes of Section 409A and if payment of any amounts under this Agreement is required to be delayed for a period of six months after separation from service pursuant to Section 409A of the Code, payment of such amounts shall be delayed as required by Section 409A of the Code, and the accumulated amounts shall be paid in a lump sum payment within 10 days after the end of the six month period. If Executive dies during the postponement period prior to the payment of benefits, the amounts withheld on account of Section 409A of the Code shall be paid to the personal representative of Executive's estate within 60 days after the day of Executive's death. The Parties agree that this Section 14 shall not be construed in a manner so as to accelerate any payments due under this Agreement. B. All payments to be made upon a termination of employment under this Agreement may only be made upon a " separation from service" under Section 409A of the Code. For purposes of Section 409A of the Code, each payment hereunder shall be treated as a separate payment and the right to a series of installment payments under this Agreement shall be treated as a right to a series of separate payments. In no event may Executive, directly or indirectly, designate the calendar year of a payment. All reimbursements and in- kind benefits provided under the Agreement shall be made or provided in accordance with the requirements of Section 409A of the Code. 15. INDEMNIFICATION: LIABILITY INSURANCE. Company shall indemnify and hold Executive harmless to the fullest extent permitted by the laws of Company's state of organization or incorporation in effect at the time against and in respect of any and all actions, suits, proceedings, claims, demands, judgments, costs, expenses (including advancement of reasonable attorney's fees), losses, and damages resulting from Executive's performance of Executive's duties and obligations with Company. Executive will be entitled to be covered, both during and, while potential liability exists, by any insurance policies the Employer may elect to maintain generally for the benefit of officers and directors of the Employer against all costs, charges and expenses incurred in connection with any action, suit or proceeding to which Executive may be made a party by reason of being an officer or director of Company in the same amount and to the same extent as Company covers its other officers and directors. These obligations shall survive the termination of Executive's employment with Company. 16. GENERAL PROVISIONS. A. Successors and Assigns. This Agreement is personal to the Executive and shall not be assigned by the Executive. Any purported assignment by the Executive shall be null and void from the initial date of the purported assignment. The Company may assign this Agreement to any successor or assign (whether direct or indirect, by purchase, merger, consolidation, or otherwise) to all or substantially all of the business or assets of the Company. This Agreement shall inure to the benefit of the Company and permitted successors and assigns. B. Survival of Certain Terms. The terms, conditions and covenants set forth in this Agreement which specifically relate to periods, activities or obligations upon or subsequent to the termination of Executive's employment, including, without limitation, the restrictive covenants contained in Sections 7- 9, shall survive the termination of this Agreement and Company's employment of Executive hereunder, and the Parties shall remain bound by such terms, conditions and covenants. C. Governing Law: Jurisdiction. This Agreement shall be construed and enforced in accordance with the procedural and substantive laws of the State of Florida, without regard to its conflicts of laws provisions. The litigation of any disputes arising out of this Agreement shall take place in the appropriate federal or state court located in Osceola, County. The Parties, to the extent they can legally do so, hereby consent to service of process, and to be sued in the State of Florida and consent to the exclusive jurisdiction of the courts of the State of Florida and the United States District Court for the Middle District of Florida, as well as to the jurisdiction of all courts to which an appeal may be taken from such courts, for the purpose of any suit, action or other proceeding arising out of any of their obligations hereunder or with respect to the transactions contemplated hereby, and expressly waive any and all objections they may have to venue in such courts. Notwithstanding the foregoing, should Executive refuse to comply with an order or judgment of such court, then Company may enforce this Agreement and the order or judgment of such court in any jurisdiction it deems appropriate. D. Severability Reform. If any provision of this Agreement is determined to be void, invalid or unenforceable, the remainder shall be unaffected and shall be enforceable as if the void, invalid or unenforceable part was not a provision of the Agreement. E. Entire Agreement. This Agreement and its attached exhibits, which by this reference are hereby incorporated into and made a part of this Agreement as if set forth herein verbatim, contain the entire understanding of the parties to this Agreement and supersede and replace all former agreements or understandings, oral or written, between Company and Executive, including any offer letter sent to Executive, regarding the subject matter hereof. Upon the effectiveness of this Agreement, the Prior Agreement shall be deemed amended and restated and superseded and replaced in its entirety by this Agreement, and shall be of no further force or effect. F. Modification and Waiver. This Agreement may not be amended except by a written instrument signed by both Parties which specifically refers to the particular provision or provisions being amended. No provision of this Agreement may be waived except in a written instrument that specifically refers to the particular provision or provisions being waived and is signed by the Party against whom the waiver is being asserted. No waiver by any Party of any right, power or privilege hereunder shall constitute a waiver of any other right, power or privilege hereunder, and no waiver by any party of any breach of a provision hereunder shall constitute a waiver of any other breach of that or any other provision of this Agreement. G. Taxes: Withholding. All compensation and benefits payable to Executive under this Agreement shall be subject to all income and other employment tax withholding and reporting required by federal, state or local law with respect to compensation, benefits and reimbursable expenses paid by a corporation to an employee. Executive shall be responsible for all taxes applicable to amounts payable under this Agreement. H. Assistance in Litigation. Executive shall reasonably cooperate with Company in the defense or prosecution of any claims or actions now in existence or that may be brought in the future against or on behalf of Company that relate to events or occurrences that transpired while Executive was employed by Company. Executive's cooperation in connection with such claims or actions shall include being available to meet with counsel to prepare for discovery or trial and to act as a witness on behalf of Company at mutually convenient times. Executive also shall cooperate fully with Company in connection with any investigation or review by any federal, state or local regulatory authority as any such investigation or review relates, to events or occurrences that transpired while Executive was employed by Company. Notwithstanding anything to the contrary in this Section 16 (H), unless otherwise mutually agreed between Executive and Company in writing and, for each day that Executive performs services under this Section 16 (H) after the final payment by Company of any and all severance compensation due to Executive under Section 4 (E) (I), Executive shall be reimbursed for his reasonable out- of- pocket expenses and Company shall pay Executive a per diem cash amount equal to 130 % of Executive's Base Salary rate on the Date of Termination. I. Beneficiaries: References. Executive shall be entitled to select (and change to the extent permitted under any applicable law) a beneficiary or beneficiaries to receive any compensation or benefit payable hereunder following Executive's death, and may change such election, in either case by giving Company written notice thereof. In the event of Executive's death or a judicial determination of Executive's incompetence, reference in this Agreement to Executive shall be deemed, where appropriate, to refer to Executive's beneficiary, estate or other legal representative. Any reference to any gender in this Agreement shall include, where appropriate, the other gender. J. Voluntary Agreement. Each Party to this Agreement has read and fully understands the terms and provisions hereof, has had an opportunity to review this Agreement with legal counsel, has executed this Agreement based upon such party's own judgment and advice of counsel, and knowingly, voluntarily and without duress, agrees to all of the terms set forth in this Agreement. The Parties have participated jointly in the negotiation and drafting of this Agreement. If an ambiguity or question of intent or interpretation arises, this Agreement will be construed as if drafted jointly by the Parties and no presumption or burden of proof will arise favoring or disfavoring any party because of authorship of any provision of this Agreement. Except as expressly set forth in this Agreement, neither the Parties nor their affiliates, advisors and / or their attorneys have made any representation or warranty, express or implied, at law or in equity with respect of the subject matter contained herein. Without limiting the generality of the previous sentence, Company, its affiliates, advisors and / or attorneys have made no representation or warranty to Executive concerning the state or federal tax consequences to Executive regarding the transactions contemplated by this Agreement. K. Effect of Headings. Headings to sections and paragraphs of this Agreement are for reference only, and do not form a part of this Agreement, or effect the interpretation of this Agreement. L. Counterparts. This Agreement may be executed in counterparts, including by transmission of facsimile or PDF copies of signature pages, each of which shall for all purposes be deemed to be an original and all of which shall constitute an instrument. All signatures of the parties transmitted by facsimile or PDF shall be deemed to be their original signatures for all purposes. [SIGNATURE PAGE FOLLOWS] IN WITNESS WHEREOF, Company has caused this Agreement to be duly executed and delivered by its duly authorized officer, and Executive has duly executed and delivered this Agreement,

effective as of the date first written on page 1 of this Agreement. ZEVRA THERAPEUTICS, INC. ("COMPANY"): By R. LaDuane Clifton R. LaDuane Clifton, CPA Chief Financial Officer, Secretary and Treasurer. Adrian Quartel- 15- EXIDBITA FORM OF RELEASE OF CLAIMS Separation of Employment Agreement and General Release THIS SEPARATION OF EMPLOYMENT AGREEMENT AND GENERAL RELEASE (the "Agreement") is made as of this _ day of, by and between Adrian Quartel ("Executive") and Zevra Therapeutics, Inc. (the "Company"). WHEREAS, Executive is employed by Company as Chief Medical Officer; WHEREAS, Executive and Company entered into an Employment Agreement, January 3, 2024, (the "Employment Agreement") which provides for certain benefits in the event that Executive's employment is terminated on account of a reason set forth in the Employment Agreement; WHEREAS, Executive's employment with Company will terminate effective (the "Termination Date"); and WHEREAS, in connection with the termination of Executive's employment, the parties have agreed to a separation package and the resolution of any and all disputes between them. NOW, THEREFORE, IT IS HEREBY AGREED by and between Executive and Company as follows: 1. Executive, for and in consideration of the commitments of Company as set forth in paragraph 6 of this Agreement, and intending to be legally bound, does hereby REMISE, RELEASE AND FOREVER DISCHARGE Company, its stockholders, its present and past affiliates, subsidiaries and parents, their respective officers, directors, investors, employees, and agents, and their respective predecessors, successors and assigns, heirs, executors, and administrators (collectively, "Releasees"), subject to the exceptions of Section 2 of the Agreement, from all causes of action, suits, debts, claims and demands whatsoever in law or in equity, which Executive ever had, now has, or hereafter may have, whether known or unknown, or which Executive's heirs, executors, or administrators may have, by reason of any matter, cause or thing whatsoever, from the beginning of time to the date of this Agreement, to the extent arising from or relating in any way to Executive's employment relationship with Company, the terms and conditions of that employment relationship, and / or the termination of that employment relationship, including, but not limited to, (i) any claims for monetary damages arising under the Age Discrimination in Employment Act ("ADEA"), the Older Workers Benefit Protection Act ("OWBPA"), Title VII of The Civil Rights Act of 1964, the Americans with Disabilities Act; (ii) any and all claims arising under the Family and Medical Leave Act of 1993, the Employee Retirement Income Security Act of 1974, as amended; (iii) any and all claims arising under any applicable state and local fair employment practice laws and wage and hour laws; (iv) any other claims under any federal, state or local common law, statutory, or regulatory provision, now or hereafter recognized; and (v) any claims for attorneys' fees and costs. 2. The foregoing shall in no event apply to (i) enforcement by Executive of Executive's rights under this Agreement, (ii) Executive's rights as a stockholder in Company or any of its affiliates, (iii) Executive's rights to indemnifications under any separate contract or insurance policy, (iv) Executive's right to seek unemployment insurance benefits, (v) Executive's right to seek workers' compensation benefits, (vi) any rights Executive has to indemnification for service as an officer of Company, or (vii) any claims that, as a matter of applicable law, are not waivable. This Agreement is effective without regard to the legal nature of the claims raised and without regard to whether any such claims are based upon tort, equity, implied or express contract or discrimination of any sort. Executive and Company agree that nothing in this Agreement prevents or prohibits Executive from (i) making any disclosure of relevant and necessary information or documents in connection with any charge, action, investigation, or proceeding relating to this Agreement, or as required by law or legal process; (ii) participating, cooperating, or testifying in any charge, action, investigation, or proceeding with, or providing information to, any self-regulatory organization, governmental agency or legislative body, and / or pursuant to the Sarbanes-Oxley Act, (iii) filing, testifying, participating in or otherwise assisting in a proceeding relating to an alleged violation of any federal, state or municipal law relating to fraud, or any rule or regulation of the Securities and Exchange Commission or any self-regulatory organization or (iv) challenging the knowing and voluntary nature of the release of ADEA claims pursuant to the OWBPA. To the extent permitted by law, upon receipt of any subpoena, court order or other legal process compelling the disclosure of any such information or documents, Executive agrees to give prompt written notice to Company so as to permit Company to protect its interests in confidentiality to the fullest extent possible. To the fullest extent provided by law, Executive acknowledges and agrees, however, Executive is waiving any right to recover monetary damages in connection with any such charge, action, investigation or proceeding. To the extent Executive receives any monetary relief in connection with any such charge, action, investigation or proceeding, Company will be entitled to an offset for the benefits made pursuant to this Agreement, to the fullest extent provided by law. Executive and Company further agree that the Equal Employment Opportunity Commission ("EEOC") and comparable state or local agencies have the authority to carry out their statutory duties by investigating charges, issuing determinations, and filing lawsuits in Federal or state court in their own name, or taking any action authorized by the EEOC or comparable state or local agencies. Executive retains the right to participate in any such action and to seek any appropriate non-monetary relief. Executive retains the right to communicate with the EEOC and comparable state or local agencies and such communication can be initiated by Executive or in response to the government and such right is not limited by any non-disparagement claims. Executive and Company agree that communication with employees plays a critical role in the EEOC's enforcement process because employees inform the agency of employer practices that might violate the law. For this reason, the right to communicate with the EEOC is a right that is protected by federal law and this Agreement does not prohibit or interfere with those rights. Notwithstanding the foregoing, Executive agrees to waive Executive's right to recover monetary damages in any charge, complaint or lawsuit filed by Executive or by anyone else on Executive's behalf. 3. In consideration of Executive's agreement to comply with the covenants described in Section 7-9 of the Employment Agreement, Company agrees as set forth in paragraph 6 herein. 4. Executive further agrees and recognizes that Executive has permanently and irrevocably severed Executive's employment relationship with Company, that Executive shall not seek employment with Company or any affiliated entity at any time in the future, and that neither Company nor any affiliate has any obligation to employ Executive in the future. 5. Executive agrees that Executive will not disparage or subvert Company or the Releasees, or make any statement reflecting negatively on Company or the Releasees, including, but not limited to, any matters relating to the operation or management of Company, Executive's employment and the termination of Executive's employment, irrespective of the truthfulness or falsity of such statement. 6. In consideration for Executive's agreement as set forth herein, Company agrees to pay and provide Executive with the severance benefits described in Section 4 (E) (I) of Executive's Employment Agreement. Executive agrees that Executive is not entitled to any payments, benefits, severance payments or other compensation beyond that expressly provided in Section 4 (E) (I) of Executive's Employment Agreement and the Accrued Benefits (as defined in Section 4 (B) of the Employment Agreement). 7. Executive understands and agrees that the payments, benefits and agreements provided in this Agreement are being provided to Executive in consideration for Executive's acceptance and execution of, and in reliance upon Executive's representations in, this Agreement. Executive acknowledges that if Executive had not executed this Agreement containing a release of all claims against Company and the Releasees, Executive would only have been entitled to the payments provided in Company's standard severance pay plan for employees. 8. Executive acknowledges and agrees that Company previously has satisfied any and all obligations owed to Executive under any employment agreement Executive has with Company or a Releasee and, further, that this Agreement supersedes any and all prior agreements or understandings, whether written or oral, between the parties, excluding only Executive's and Company's post-termination obligations under Executive's Employment Agreement, Executive's rights under any outstanding equity grants in accordance with the terms of the applicable grant agreements, any obligations relating to the securities of Company or any of its affiliates and Company's obligations under Section 4 (E) (I) of Executive's Employment Agreement and to pay or provide the Accrued Benefits (as defined in Section 4 (B) of the Employment Agreement), all of which shall remain in full force and effect to the extent not inconsistent with this Agreement, and further, that, except as set forth expressly herein, no promises or representations have been made to Executive in connection with the termination of Executive's Employment Agreement or the terms of this Agreement. 9. Except as may be necessary to obtain approval or authorization to fulfill Executive's or its obligations hereunder or as required by applicable law and subject to the exceptions of Section 2 of the Agreement, (a) Executive agrees not to disclose the terms of this Agreement to anyone, except Executive's spouse, attorney and, as necessary, tax / financial advisor, and (b) Company agrees that the terms of this Agreement will not be disclosed. It is expressly understood that any violation of the confidentiality obligation imposed hereunder constitutes a material breach of this Agreement. 10. Executive represents that Executive does not presently have in Executive's possession any records and business documents, whether on computer or hard copy, and other materials (including but not limited to computer disks and tapes, computer programs and software, office keys, correspondence, files, customer lists, technical information, customer information, pricing information, business strategies and plans, sales records and all copies thereof) (collectively, the "Corporate Records") provided by Company and / or its predecessors, parents, subsidiaries or affiliates or obtained as a result of Executive's employment with Company and / or its predecessors, parents, subsidiaries or affiliates, or created by Executive while employed by or rendering services to Company and / or its predecessors, parents, subsidiaries or affiliates. Executive acknowledges that all such Corporate Records are the property of Company. In addition, Executive shall promptly return in good condition any and all Company owned equipment or property, including, but not limited to, automobiles, personal data assistants, facsimile machines, copy machines, pagers, credit cards, cellular telephone equipment, business cards, laptops and computers. As of the Termination Date, Company will make arrangements to remove, terminate or transfer any and all business communication lines including network access, cellular phone, fax line and other business numbers. 11. Subject to the exceptions of Section 2 of the Agreement, Executive expressly waives all rights afforded by any statute which expressly limits the effect of a release with respect to unknown claims. Executive acknowledges the significance of this release of unknown claims and the waiver of statutory protection against a release of unknown claims which provides that a general release does not extend to claims which the creditor does not know or suspect to exist in Executive's favor at the time of executing the release, which if known by it must have materially affected its settlement with the debtor. 12. The parties agree and acknowledge that the agreements by Company described herein, and the settlement and termination of any asserted or unasserted claims against the Releasees, are not and shall not be construed to be an admission of any violation of any federal, state or local statute or regulation, or of any duty owed by any of the Releasees to Executive. 13. Executive agrees and recognizes that should Executive breach any of the obligations or covenants set forth in this Agreement, Company will have no further obligation to provide Executive with the consideration set forth herein, and will have the right to seek repayment of all consideration paid up to the time of any such breach. Further, Executive acknowledges in the event of a breach of this Agreement, Releasees may seek any and all appropriate relief for any such breach, including equitable relief and / or money damages. 14. This Agreement and the obligations of the parties hereunder shall be construed, interpreted and enforced in accordance with the laws of the State of Florida. 15. Executive certifies and acknowledges as follows: a. That Executive has read the terms of this Agreement, and that Executive understands its terms and effects, including the fact that Executive has agreed to RELEASE AND FOREVER DISCHARGE Company and each of the Releasees from any legal action arising out of Executive's employment relationship with Company and the termination of that employment relationship; b. That Executive has signed this Agreement voluntarily and knowingly in exchange for the consideration described herein, which Executive acknowledges is adequate and satisfactory to Executive and which Executive acknowledges in addition to any other benefits to which Executive is otherwise entitled; c. That Executive has been and is hereby advised in writing to consult with an

attorney prior to signing this Agreement; d. That Executive does not waive rights or claims that may arise after the date this Agreement is executed; e. That Company has provided Executive with a period of [twenty- one (21)] or [forty- five (45)] days within which to consider this Agreement, and that Executive has signed on the date indicated below after concluding that this Separation of Employment Agreement and General Release is satisfactory to Executive; and [Note: The applicable time period will depend on whether the termination is part of a reduction in force (45 days) or not (21 days). In addition, if the termination is in connection with a reduction in force, certain disclosures will need to be made to Executive to comply with the requirements of the ADEA if Executive is at least age 40.] f. Executive acknowledges that this Agreement may be revoked by Executive within seven (7) days after execution, and it shall not become effective until the expiration of such seven (7) day revocation period. In the event of a timely revocation by Executive, this Agreement will be deemed null and void and Company will have no obligations hereunder. Revocation may be achieved only by delivering a letter to [NAME, TITLE, ADDRESS], clearly evidencing a decision to revoke within the seven day revocation period. Intending to be legally bound hereby, Executive and Company executed the foregoing Separation of Employment Agreement and General Release this day of ZEVRA THERAPEUTICS, INC. Witness: _ By: _ Name: Witness: _ Title: Exhibit 10. 14 KEMPHARM, INC. EXECUTIVE EMPLOYMENT AGREEMENT This EXECUTIVE EMPLOYMENT AGREEMENT (" Agreement") is made and entered into effective as of the 6th day of January 2023, by and between KEMPHARM, INC. a Delaware corporation (the " Company") and JOSHUA SCHAFFER (" Executive") (each being a " Party" hereto and together constituting the " Parties"). WHEREAS, Company desires to employ Executive and, in connection therewith, to compensate Executive for Executive's personal services to the Company; and WHEREAS, Executive wishes to be employed by the Company and provide personal services and certain covenants to the Company in return for certain compensation and benefits. A. Employment. Subject to the terms set forth herein, Company agrees to employ Executive, and Executive hereby accepts such employment with Company as Chief Commercial Officer and Executive Vice President of Business Development, or in such other capacities as Company shall reasonably determine from time to time, upon the terms and conditions set forth in this Agreement. B. Effective Date and Term. Company's employment of Executive under this Agreement shall commence effective as of January 6, 2023 (the " Effective Date") and continue until the Date of Termination (defined in Section 4 (A)) (hereinafter such period of time from the commencement until termination of employment shall be referred to as the " Employment Term"). C. Duties of Executive. During the Employment Term, all of the following shall apply: Executive shall carry out, perform and comply with such reasonable and lawful orders, directions, and written rules and policies (including those rules and policies memorialized in meeting minutes) as are assigned or set by Company's Chief Executive Officer (the " CEO") from time to time. Executive shall report to, receive directions from and be reviewed by the CEO. Executive's duties shall include the duties and responsibilities commonly associated with a Chief Commercial Officer of a company similar to Company. Subject to the limitations of Section 4 (E) (3) (iv), the CEO retains the right to modify Executive's responsibilities pursuant to the legitimate business needs of Company. D. Duty of Loyalty. During the Employment Term, Executive shall not, without the prior written consent of the CEO, accept other employment or render or perform other services for compensation. Executive shall devote Executive's full business time and attention and Executive's best efforts to the faithful performance of Executive's duties as an executive officer and employee of Company. Executive's expenditure of reasonable amounts of time (i) devoted to serving on up to two (2) public boards, provided there is no conflict of interest; (ii) devoted to serving on up to two (2) private and / or non- profit boards; (iii) for teaching; and (iv) on behalf of charitable or professional organizations in a capacity other than a board member, shall not be deemed a breach of this Agreement, provided such activities do not interfere with the performance of Executive's duties and responsibilities hereunder, as determined in the CEO's reasonable sole discretion. Nothing in this Agreement shall preclude Executive's expenditure of reasonable amounts of time on personal business; provided such activities do not materially interfere with the performance of Executive's duties and responsibilities hereunder, as determined in the CEO's reasonable sole discretion. E. Place of Performance. Executive's principal place of employment during the Employment Term will be Celebration, Florida, or such other location as mutually agreed upon by Executive and the CEO. Notwithstanding the foregoing, the Parties expressly agree and acknowledge that the Executive shall initially work remotely from his home office or another remote location of his choosing. Further, notwithstanding the foregoing, Executive understands and agrees that Executive's presence may be required at Company headquarters or other Company worksites, or Executive may be required to travel for business, in each case, in accordance with Executive's duties and responsibilities under this Agreement, as business needs require or may change over time and as reasonably requested by the CEO. 2. COMPENSATION AND BENEFITS. In consideration of the services to be rendered by Executive pursuant to this Agreement, as well as Executive's covenants set forth in this Agreement, Company shall pay to Executive the following compensation, which shall be the entire and exclusive compensation for all of Executive's services rendered and other obligations taken on Company's behalf: A. Annual Base Salary. During the Employment Term, Company shall pay to Executive an annualized base salary of \$ 460, 000 (the " Base Salary"). For calendar years in which Executive is employed for less than the full year, the Base Salary shall be prorated and accrue on a per diem basis for only those days on which Executive was employed during the Employment Term. The Base Salary will be paid by Company in equal installments according to Company's customary payroll practices, but in any event not less frequently than monthly, and shall be subject to all mandatory and voluntary payroll deductions. Executive's Base Salary shall be reviewed periodically by the Company and may be appropriately increased from time to time in the sole discretion of the Company and may only be decreased proportionately with any across- the- board decrease applicable to all senior executives of Company. B. Incentive Compensation. During the Employment Term, Executive shall be entitled to participate in all short- term and long- term incentive programs established by Company, at such levels as the Company's Board of Directors (the " Board of Directors") or the Compensation Committee of the Board of Directors (the " Compensation Committee") determines. Executive's annual short- term incentive opportunity target shall be no less than 40 % of the Base Salary, as such percentage may be increased from time to time (the " Target Annual Bonus"). The actual amount of such annual incentive compensation shall be determined in accordance with the applicable plans based on achievement of individual and Company performance objectives established in advance by the Board of Directors or the Compensation Committee, taking into account input from Executive, and such actual annual short term incentive compensation amount may be more or less than the target amount. No minimum incentive is guaranteed. C. Equity Compensation. Subject to the approval of the Board of Directors or Compensation Committee, Executive will be granted an option to purchase 300, 000 shares of the Company's common stock (the " Option") pursuant to and in accordance with the terms and conditions of an equity incentive plan maintained by the Company (the " Plan") and other documents issued in connection with the grant (the " Option Documents"). The Option will have an exercise price equal to the closing price of the common stock as reported on the NASDAQ Global Market on the date of grant. The vesting commencement date of the Option will be the date upon which the Compensation Committee approves the initial Option (the " Option Vesting Commencement Date"). The Option will vest in four (4) equal annual installments, beginning on the first anniversary of the Option Vesting Commencement Date, subject to Executive's continuous service to the Company through each such vesting date. The specific terms and conditions of the Option will be as set forth in the Plan and Option Documents and other applicable documents, which Executive may be required to sign, and the Option shall be subject to all of the terms and conditions of the Plan and the relevant Option Documents. D. Retirement, Welfare and Other Benefit Plans and Programs. During the Employment Term, Executive shall be entitled to participate in the employee retirement and welfare benefit plans and programs made available to Company's other senior level executives as a group, as such retirement and welfare plans may be in effect from time to time and subject to the eligibility requirements of such plans, including but not limited to, life, health and disability plans, and a 401 (k) retirement plan and similar or other plans. During the Employment Term, Executive shall be eligible for vacation, sick leave and holidays in accordance with Company's vacation, sick and holiday and other pay for time not worked policies. Nothing in this Agreement or otherwise shall prevent Company from amending or terminating after the Effective Date any retirement, welfare or other employee benefit plans, programs, policies or perquisites from time to time as Company deems appropriate, and Executive's participation in any such plan, program, policy and perquisite shall be subject to the terms, provisions, rules and regulations thereof. F. Initial Signing / Retention Bonus. Executive is entitled to a signing bonus in the amount of \$ 100, 000 (the " Initial Bonus"), subject to standard payroll withholding and deductions, advanced in a lump sum on the first regularly scheduled payroll date following the Effective Date provided Executive joins the Company and is an active employee on such payroll date. Executive will earn the Initial Bonus on a monthly basis, earning 1 / 6th of the Initial Bonus on the one- month anniversary date of the Effective Date each month over the six (6) month period following the Effective Date, by remaining employed by the Company on the anniversary date of each applicable month. In the event that Executive resigns from the Company without Good Reason (as defined below) or is terminated by the Company for Cause (as defined below) within six (6) months of the Effective Date, Executive shall be obligated to, and hereby agrees to, repay the net, after- tax amount of the Initial Bonus that has not yet been earned. In the event that Executive resigns from the Company for Good Reason or is terminated by the Company without Cause within six (6) months of the Effective Date, Executive will be permitted to retain that portion of the Initial Bonus that was not yet earned. To the extent permitted by applicable law, Executive expressly authorizes the Company to deduct any amount advanced that is subject to repayment from any amount otherwise owed to him by the Company, including without limitation compensation and expense reimbursement, and also agrees to repay any balance owed within thirty (30) days following his employment termination date. Executive also hereby agrees to execute any such separate authorization paperwork necessary to effect such deduction. 3. COMPANY POLICIES AND PROCEDURES. Executive agrees to observe and comply with the reasonable and lawful policies and procedures of Company as adopted by the Board of Directors in writing or reflected in the formal minutes of the Board of Directors or committee thereof, respecting performance of Executive's duties and to carry out and to perform the reasonable and lawful orders and directions stated by Company to Executive, from time to time, either orally or in writing. Executive agrees that Executive will be subject to any compensation clawback, recoupment and anti- hedging policies that may be applicable to Executive as an executive of Company, as in effect from time to time and as approved by the Board of Directors or a duly authorized committee thereof. 4. TERMINATION. A. Notice of Termination and Date of Termination. Each Party must give written notice to the other of the intent to terminate this Agreement and Executive's employment hereunder (" Notice of Termination"). The Notice of Termination must specify a date of termination of employment, which shall incorporate any period of notice required by this Section 4 (" Date of Termination"). B. Executive's Death or Total Disability. Executive's employment under this Agreement shall terminate upon the date of Executive's death. Additionally, if, during the Employment Term, Executive suffers a Total Disability (as defined in Section 4 (E) (3) (iii)), then Company may terminate Executive's employment under this Agreement by giving Executive a Notice of Termination specifying the Date of Termination. Upon such termination due to death or Total Disability, Company shall pay to Executive or Executive's estate (i) any Base Salary that has fully accrued but not been paid as of the effective date of such termination, as well as any vested and accrued employment benefits subject to the terms of any applicable employment benefit arrangements and applicable law (" Accrued Benefits") and (ii) a prorated bonus for the year in which Executive's death or Disability occurs, which bonus shall be calculated and paid in the same manner as set forth below in Section 4 (E) (1) (b). All other rights and benefits of Executive and

Executive's dependents hereunder shall terminate upon such termination, except for any right to the continuation of benefits otherwise provided by law. C. By Company with Cause. Company may terminate with Cause (as defined in Section 4 (E) (3) (i)) Executive's employment hereunder at any time. In order to terminate Executive's employment hereunder with Cause, Company must give Notice of Termination to Executive specifying the Cause and the Date of Termination, which may be the same date as the date of the Notice of Termination. Upon termination with Cause, Company shall pay to Executive all Accrued Benefits. All other rights and benefits of Executive hereunder shall terminate upon such termination, except for any right to the continuation of benefits otherwise provided by law. D. By Executive without Good Reason or by Mutual Agreement. Executive may terminate Executive's employment without Good Reason (as defined in Section 4 (E) (3) (iv)) at any time by giving Company Notice of Termination at least 30 days prior to the Date of Termination designated by Executive. In addition, this Agreement may be terminated at any time by written mutual agreement of the Parties with or without notice. Upon termination of Executive's employment by Executive without Good Reason or termination by mutual agreement of the parties, Company shall pay to Executive all Accrued Benefits. All other rights and benefits of Executive hereunder shall terminate upon such termination, except for any right to the continuation of benefits otherwise provided by law. E. Without Cause by Company or For Good Reason by Executive. Company may terminate Executive's employment at any time without Cause (as defined in Section 4 (E) (3) (ii)) by giving Executive a Notice of Termination at least one day prior to the Date of Termination, and Executive may terminate Executive's employment for Good Reason by giving Company a Notice of Termination in accordance with Section 4 (E) (3) (iv) below. Upon termination of Executive's employment without Cause by Company or for Good Reason by Executive, Company will pay Executive (i) all Accrued Benefits, (ii) the severance compensation payable set forth below in this Section 4 (E), if Executive executes and does not revoke a Release (as defined in Section 4 (E) (3) (v)) within 60 days following the Date of Termination. All other rights and benefits of Executive hereunder shall terminate upon such termination, except for any right to the continuation of benefits otherwise provided by law. 1. In the event that Company terminates Executive's employment without Cause or Executive terminates Executive's employment for Good Reason, and Executive executes and does not revoke a Release, then Company shall pay to Executive as severance compensation, the following: a. Executive's Base Salary (at the rate payable at the time of such termination) for a period of twelve (12) months following the Date of Termination. Such severance compensation shall be paid by Company in equal installments according to Company's customary payroll practices, with the first payment made on the first regularly scheduled pay day immediately following the 60th day following the Date of Termination; provided, however, that if such termination of employment occurs upon or within one year following a Change in Control, then (i) the Company shall pay such severance in a lump sum on the first regularly scheduled pay day immediately following the 60th day following the Date of Termination, but the amount will only be paid in a lump sum if the Change in Control constitutes a "change in control event" as defined under Section 409A of the Internal Revenue Code of 1986, as amended (the "Code"); and (ii) notwithstanding the preceding clause (i), if the Change in Control is not a "change in control event" as defined under Section 409A of the Code and penalty taxes may result under Section 409A of the Code if such severance compensation is paid in a lump sum, then the severance compensation will be paid in equal installments according to Company's customary payroll practices, with the first payment made on the first regularly scheduled pay day immediately following the 60th day following the Date of Termination. b. To the extent Executive has an annual incentive compensation award for the year of termination in which the Date of Termination occurs, Executive shall receive a pro rata Target Annual Bonus award payment for the year in which the Date of Termination occurs (measured at the target level, identified "goal" target or other similar target, without taking into account any incentive override for above goal performance, or any project-specific or other non-standard incentives), which shall be paid on the first regularly scheduled pay day immediately following the 60th day following the Date of Termination. The pro rata amount shall be determined as the Target Annual Bonus in effect for the year in which the Date of Termination occurs multiplied by a fraction, the numerator of which is the number of days in which Executive was employed by Company during the year in which the Date of Termination occurs, including the Date of Termination, and the denominator of which is 365. c. If Executive timely elects continued coverage under Section 4980B of the Code ("COBRA"), Company will pay the COBRA premiums necessary to continue Executive's and his covered dependents' health insurance coverage in effect for Executive (and Executive's covered dependents) during the 12-month period following the Date of Termination; provided that such payments shall not continue beyond the first to occur of (x) the date Executive ceases to be eligible for COBRA continuation coverage for any reason, including plan termination, and (y) the date on which Executive is eligible for substantially similar coverage from a subsequent employer (such period from the termination date through the earlier of (x)- (y), the "COBRA Payment Period"). Notwithstanding the foregoing, if at any time the Company determines that its payment of COBRA premiums on Executive's behalf would result in a violation of applicable law (including, but not limited to, the 2010 Patient Protection and Affordable Care Act, as amended by the 2010 Health Care and Education Reconciliation Act), then in lieu of paying COBRA premiums pursuant to this Section, the Company shall pay Executive on the last day of each remaining month of the COBRA Payment Period, a fully taxable cash payment equal to the COBRA premium for such month, subject to applicable tax withholding, for the remainder of the COBRA Payment Period, and the Executive shall not be obligated to use any monthly, taxable cash payment to pay COBRA premiums. In the event that the Executive is on COBRA continuation coverage and the Company is required by law to subsidize all or any portion of the monthly COBRA premium that the Executive is required to pay, the Executive shall not be entitled to reimbursement of the monthly COBRA premium (except as required by law) or the taxable monthly payment of the COBRA premium amount to the extent of the amount of the required subsidy. Nothing in this Agreement shall deprive Executive of his rights under COBRA or ERISA for benefits under plans and policies arising under his employment by the Company. d. The vesting of each outstanding equity award granted to Executive will accelerate so that such awards will be fully vested as of the Date of Termination. If any equity awards vest based on the attainment of performance goals, the performance goals will be deemed to have met as of the Date of Termination, unless such greater amount of vesting is provided for in the applicable award agreements. 2. Payment of the severance compensation shall be subject to all mandatory and voluntary payroll deductions. In the event that Executive materially breaches any of Executive's post-employment covenants or obligations set forth in this Agreement that the Board of Directors reasonably determines is not cured (to the extent the breach is curable as determined by the Board of Directors) within 15 days following written notice from Company, then the payment of severance compensation pursuant to this section shall terminate immediately and permanently. During the period that Executive is paid the foregoing severance compensation, Executive shall not further accrue any other benefits under any benefit plans of which Executive was a participant while employed by Company, except as otherwise required by applicable federal or state law, by the express terms of this Agreement, or by the express terms of such benefit plans; provided, however, that if Executive becomes entitled to and receives the payments described in Section 4 (E) (I) of this Agreement, Executive hereby waives Executive's right to receive payments under any severance plan or similar program applicable to employees of Company. i. Executive's employment will be deemed to have been terminated by Company "with Cause" if the termination arises from a determination by Company in its sole discretion that (a) Executive was negligent or incompetent in the performance of his duties and responsibilities as an employee and executive officer of Company or under this Agreement or failed to perform such duties in a manner satisfactory to the Company; or (b) except as otherwise provided in Section 1 (D), Executive's continued failure to devote his full business time and attention and his best efforts to the faithful performance of his material duties and responsibilities (other than a failure resulting from Executive becoming disabled); or (c) Executive materially breached any covenant or condition under this Agreement or any other agreement between Company and Executive; or (d) Executive is convicted of committing an act constituting fraud, embezzlement, misappropriation, personal dishonesty against Company, or immoral or disreputable conduct; or (e) Executive is convicted of engaging in conduct which constitutes a felony under applicable law; or (f) Executive violated a Company policy or engaged in an act of misconduct; or (g) Executive refused to follow or implement a clear and reasonable directive of Company; or (h) Executive failed to pass to the satisfaction of Company a preliminary background check or failed to submit proof of legal eligibility to work in the United States; or (i) breach of fiduciary duty; provided, however, Executive shall have 15 days following Company's provision of the Notice of Termination specifying a condition under clause (a), (b), (c), (f) or (g) constituting Cause to cure such condition (to the extent the condition is curable as reasonably determined by the Company), before which time a termination with Cause cannot be effective unless such condition remains uncured as reasonably determined by the Company. ii. Executive's employment shall be deemed to have been terminated by Company "without Cause" if such termination is not with "Cause," and such termination is not the result of Executive's death or Executive suffering a Total Disability. iii. Executive shall be deemed to have suffered a "Total Disability" if (a) Executive is granted long-term disability benefits under Company's long-term disability plan or (b) Executive becomes physically or mentally disabled so that Executive is unable to perform the essential functions of Executive's job, with or without reasonable accommodation in accordance with the Americans with Disabilities Act and its amendments, for a period of 180 consecutive days. iv. Executive shall be deemed to have terminated Executive's employment for "Good Reason" if Executive terminates Executive's employment on account of the occurrence of one or more of the following without Executive's consent: a. A material diminution by Company of Executive's authority, duties or responsibilities which is not the result of Executive's acts or omissions which constitute "Cause" as set forth in clauses (a) through (e) of subsection 4 (E) (3) (i), and provided further that neither the conversion of Company to a subsidiary, division or unit of an acquiring entity in connection with a Change in Control (as defined in the Plan), or Executive's reporting relationships following a Change in Control, nor a change in title, will be deemed a "material diminution" in and of itself or material adverse alteration in, Executive's position, title, duties, or responsibilities; c. A material diminution in the Executive's Base Salary which is (y) not the result of Executive's acts or omissions which constitute "Cause" as set forth in clauses (a) through (e) of subsection 4 (E) (3) (i), and (z) not in connection with either an across-the-board reduction in salaries or a temporary reduction due to financial exigency; or d. Any action or inaction that constitutes a material breach by Company of this Agreement, including the failure of Company to pay any amounts due under Section 2 or the failure of Company to obtain from its successors the express assumption and agreement required under Section 16 (A). Executive must provide Notice of Termination for Good Reason to Company within 60 days after the event constituting Good Reason. Company shall have a period of 30 days in which it may correct the act or failure to act that constitutes the grounds for Good Reason as set forth in Executive's Notice of Termination. If Company does not correct the act or failure to act, then, in order for the termination to be considered a Good Reason termination, Executive must terminate Executive's employment for Good Reason by giving Notice of Termination with a Date of Termination designated by Executive within 30 days after the period for curing the violation or condition has ended. v. The term "Release" shall mean a release of claims approved by Company, which shall be in the form attached hereto as Exhibit B, subject to revision based on advice from Company counsel to comply with changes in applicable law. 4. In the event Company terminates Executive's employment with Cause, Executive voluntarily terminates Executive's employment with Company other than for Good Reason, or such employment is terminated by mutual agreement or as the result of Executive's death or Total Disability, Executive shall not be entitled to payment of any severance compensation under this Agreement and Executive shall not be entitled to receive severance benefits under any Company severance plan. F. Cooperation after

Notice of Termination. Following any Notice of Termination by either Company or Executive, Executive, if requested by Company, shall reasonably cooperate with Company in all matters relating to the winding up of Executive's pending work on behalf of Company and the orderly transfer of any such pending work to other employees of Company as may be reasonably designated by Company following the Notice of Termination. Executive shall not receive any additional compensation during the Employment Term, other than Executive's Base Salary, for any services that Executive renders as provided in this Section 4 (F). For each day that Executive performs services under this Section 4 (F) after the Employment Term, Executive shall be reimbursed for his reasonable out-of-pocket expenses and, after the final payment by Company of any and all severance compensation due to Executive under Section 4 (E), Company shall pay Executive a per diem cash amount at Executive's Base Salary rate on the Date of Termination. G. Surrender of Records and Property. Upon termination of employment, Executive shall promptly turn-over or deliver to Company at Company's expense all property of Company in Executive's possession, custody, or control, including without limitation thereto: records (paper and electronic), files (paper and electronic), documents (paper and electronic), electronic mail (e-mail) on Company accounts, letters, financial information, memorandum, notes, notebooks, contracts, project manuals, specifications, reports, data, tables, calculations, data, electronic information, and computer disks, in all cases whether or not such property constitutes Confidential Information (as defined below), and all copies thereof; all keys to motor vehicles, offices or other property of Company; and all computers, cellular phones and other property of Company. If any of the foregoing property of Company is electronically stored on a computer or other storage medium owned by Executive or a friend, family member or agent of Executive, such information shall be copied onto a computer disk to be delivered to Company together with a written statement of Executive that the information has been deleted from such person's computer or other storage medium. 5. SECTION 280G OF THE CODE. A. Shareholder Approval, etc. At any time when Company is a corporation described in Section 280G (b) (5) (A) (ii) (I) of the Code, if a nationally recognized United States public accounting firm selected (and paid for) by Company (the "Accountant") determines that any payment or benefit (including any accelerated vesting of equity awards) made or provided, or to be made or provided, by Company (or any successor thereto or affiliate thereof) to or for the benefit of Executive, whether pursuant to the terms of this Agreement, any other agreement, plan, program or arrangement of or with Company (or any successor thereto or affiliate thereof) or otherwise in connection with, or arising out of, a change in ownership or an effective control of Company or of a substantial portion of assets (any such payment or benefit, a "Parachute Payment"), will be subject to the excise tax imposed by Section 4999 of the Code or any comparable tax imposed by any replacement or successor provision of United States tax law (the "Excise Tax"), if Executive waives Executive's right to receive all or a portion of the Parachute Payments unless such Parachute Payments are approved by the shareholders pursuant to Treas. Reg. Section 1.280G-1, Q & A- 7. Company shall in good faith seek to obtain approval of payment of such waived Parachute Payments in accordance with the shareholder approval requirements described in Treas. Reg. Section 1.280G- 1, Q & A- 7. B. Better Off If, following the date when Company ceases to be corporation described in Section 280G (b) (5) (A) (ii) (I) of the Code, it is determined by the Accountant that Executive shall become entitled to a Parachute Payment, which Parachute Payment shall be subject to the Excise Tax, then Company shall cause to be determined, before any amounts of any Parachute Payment is paid to Executive, which of the following two alternative forms of payment would result in Executive, on an after-tax basis, retaining the greater amount of Parachute Payments, notwithstanding that all or a portion of the Parachute Payments may be subject to the Excise Tax: (a) payment in full of all Parachute Payments or (b) payment of only a part of the Parachute Payments so that Executive receives the largest payment possible without the imposition of the Excise Tax (a "Reduced-Payment"). For purposes of this Section S (B), the Accountant shall take into account all applicable federal, state and local income and employment taxes and the Excise Tax (all computed at Executive's actual marginal tax rate). If a Reduced Payment is made, (i) Executive shall have no rights to any additional payments and / or benefits constituting the Parachute Payments, and (ii) reduction in payments and / or benefits shall occur in the manner that results in the greatest economic benefit to Executive as determined in Section S (C). C. Method or Determination. One or more determinations (each a "Tax Determination") as to whether any of the Parachute Payments will be subject to the Excise Tax shall be made by the Accountant (with all costs related thereto paid by Company). For purposes of determining whether any of the Parachute Payments will be subject to the Excise Tax: (i) all of the Parachute Payments shall be treated as "parachute payments" (within the meaning of Section 280G of the Code) unless and to the extent that in the written advice of the Accountant, certain Payments should not constitute parachute payments, and (ii) all "excess parachute payments" (within the meaning of Section 280G of the Code) shall be treated as subject to the Excise Tax unless and only to the extent that the Accountant advises Company that such excess parachute payments are not subject to the Excise Tax. A. Work Product. During the Employment Term, Executive will be expected to perform duties which may lead to and include the discovery, creation, development, or expression of inventions, discoveries, developments, modifications, procedures, ideas, innovations, systems, programs, know-how, literary properties, chemical or biological data, computer software, improvements, processes, methods, formulas, systems, creative works and techniques (collectively, hereinafter "Work Product"). B. Assignment Executive hereby assigns and transfers to Company, and agrees that Company shall be the sole owner of all Work Product conceived, developed or made by Executive (alone or with others), whether during working hours or at any other time, in whole or in part during Executive's employment with Company (including prior to, during and after the Employment Term), whether at the request or upon the suggestion of Company or otherwise, which are useful in, or directly or indirectly related to Company's business or any contemplated business of Company or which relate to, or are conceived, developed, or made in the course of, Executive's employment or which are developed or made from, or by reason of knowledge gained from, such employment. D. Continuing Obligations. Executive agrees to disclose promptly all Work Product conceived or made by Executive (alone or with others) to which Company is entitled to as provided herein, and agrees not to disclose such Work Product to others except as required by law or as is reasonably necessary or appropriate in connection with the performance of Executive's duties as an employee and officer of Company, without the express written consent of Company. Executive further agrees that during the Employment Term and at any time thereafter, Executive will, upon request by Company, provide all assistance reasonably required to protect, perfect and use the Work Product, including execution of proper assignments to Company of any and all such Work Product to which Company is entitled, execution of all papers and performance all other lawful acts which Company may deem necessary or advisable for the preparation, prosecution, procurement and maintenance of trademarks, copyrights and or patent applications, and execution of any and all proper documents as shall be required or necessary to vest title in Company to such Work Product. It is understood that all expenses in connection with such trademarks, copyrights or patents, and all applications related thereto, shall be borne by Company, however Company is under no obligation to protect such Work Product, except at its own discretion and to such extent as Company shall deem desirable. Executive shall not receive any additional compensation during the Employment Term, other than Executive's Base Salary, for any services that Executive renders as herein provided. For each day that Executive performs services under this Section 6 (0) after the Employment Term, Executive shall be reimbursed for his reasonable out-of-pocket expenses and, after the final payment by Company of any and all severance compensation due to Executive under Section 4 (E), Company shall pay Executive a per diem cash amount at Executive's Base Salary rate on the Date of Termination. A. Confidential Information. The term "Confidential Information" means all information related to Company's business, which exists or is developed at any time while Executive is an employee, officer and / or director of Company (including prior to, during and after the Employment Term), including without limitation: (i) strategic and development plans, financial information, equity investors, business plans, co-developer identities, business relationships, business records, project records, market reports, information relating to processes and techniques, technology, research, data, development, trade secrets, know-how, discoveries, ideas, concepts, specifications, diagrams, inventions, technical and statistical data, designs, drawings, models, flow charts, engineering, products, invention disclosures, patent applications, chemical and molecular structures, synthetic pathways, biological data, safety data, clinical data, developmental data, development route, manufacturing processes, synthetic techniques, analytical data, Work Product, and any and all other proprietary and sensitive information, disclosed or learned, whether oral, written, graphic or machine-readable, whether or not marked confidential or proprietary, whether or not patentable, whether or not copyrightable, including the manner and results in which any such Confidential Information may be combined with other information or synthesized or used by Company, which could prove beneficial in enabling a competitor to compete with Company; or (ii) information that satisfies the definition of a "trade secret" as that term is defined in the Florida Uniform Trade Secrets Act, FL Code Chpt. 688, as amended from time to time; provided, however, that information that is in the public domain (other than as a result of a breach by Executive of this Section 7), approved for release by Company, or lawfully obtained from a third party who is not known by Executive (after Executive's reasonable inquiry) to be bound by a confidentiality agreement with Company is not Confidential Information. B. Acknowledgements. Executive acknowledges and agrees that: (1) Executive's position with Company is one of high trust and confidence, (2) the Confidential Information constitutes a valuable, special and unique asset which Company uses to obtain a competitive advantage over its competitors, (3) Executive's protection of such Confidential Information against unauthorized use or disclosure is critically important to Company in maintaining its competitive advantage, (4) all Confidential Information is the property of Company, and (5) Executive shall acquire no right, title or interest in, to or under any such Confidential Information. C. Nondisclosure. Executive promises that Executive will never (before, during or after the Employment Term): (i) disclose any Confidential Information to any person other than (i) an officer or director of Company; or (ii) any other person who is bound by nondisclosure restrictive covenants to Company and to whom disclosure of such Confidential Information is reasonably necessary or appropriate in connection with performance by Executive of Executive's duties as an employee and officer of Company; or (2) use any Confidential Information except to the extent it is reasonably necessary or appropriate in connection with performance by Executive of Executive's duties as an employee and officer of Company. Executive promises to take all reasonable precautions to prevent the inadvertent or accidental disclosure or misuse of any Confidential Information. In the event Executive receives a request to disclose all or any part of the Confidential Information under the terms of a subpoena or order issued by a court or governmental body, Executive promises, to the extent permissible by law, to (a) notify Company immediately of the existence, terms and circumstances surrounding such request, (b) consult with Company on the advisability of taking legally available steps to resist or narrow such request, (c) if disclosure is required, furnish only such portion of the Confidential Information as Executive is legally compelled to disclose; and (e) exercise Executive's best efforts to obtain an order or other reliable assurance that confidential treatment will be accorded to the disclosed Confidential Information. A. Restricted Period. As used in this Agreement, the term "Restricted Period" means throughout the Employment Term and continuing until the end of the twelve (12) month period following the date on which Executive's employment with Company is terminated for any reason (whether voluntary or involuntary). B. Prohibition on Competition. In order to protect Company's legitimate business interests pursuant to Fla. Stat. Section 542.335, Executive hereby covenants and agrees that, until the expiration of the Restricted Period, except for any activity identified on Exhibit A, Executive will not serve as an officer, director, employee, independent contractor, consultant or agent of, or have any ownership interest in, any business entity which engages in any activities anywhere in the world that are materially similar to or competitive with Company's pharmaceutical produg development and

Commercialization (as defined below) activities in the fields of (i) opioid products for the treatment of pain, (ii) stimulant products for the treatment of ADHD, (iii) therapeutics to treat idiopathic hypersomnia, (iv) therapeutics to treat stimulant use disorder, (v) therapeutics to treat Tourette's syndrome, and / or (vi) such other products which Company is actively and demonstrably developing and / or Commercializing at the time Executive's employment is terminated. If a court of competent jurisdiction finds this non-competition provision invalid or unenforceable due to unreasonableness in time, geographic scope, or scope of Company's business, then Executive agrees that such court shall interpret and enforce this provision to the maximum extent that such court deems reasonable. For purposes of this Agreement, "Commercialize" or "Commercialization" means the sales and marketing phase with regard to a specific drug candidate in a specific country or region following the regulatory approval of said drug candidate in the applicable country or region. C. Exceptions. Executive's ownership of less than 5 % of the stock of a company that is competitive with the activities of Company as described in Section 8 (8) and listed on a national securities exchange shall not be deemed to violate the prohibitions of Section 8 (8). Also, Executive shall not be considered to have violated Section 8 (8) with respect to the purchasing entity if there is a Change in Control and Executive becomes an employee, officer, director or shareholder of the purchasing entity. 9. NONSOLICITATION OF EMPLOYEES. In order to protect Company's legitimate business interests pursuant to Fla. Stat. Section 542.335, until the expiration of the Restricted Period, Executive shall not, directly or indirectly, either on Executive's own account or for any other person or entity: (a) employ, solicit, induce, advise, or otherwise convince, interfere with Company's employment of, or offer employment to, any employee of Company; (b) employ or otherwise interfere with Company's engagement with, or offer employment to, any consultant of Company; or (c) induce or attempt to induce any such employee or consultant to breach their employment agreement or relationship or consulting agreement or relationship with Company; provided, however, that Executive shall not be in breach of this provision if any such employee or consultant, without inducement or solicitation by Executive, applies for employment at Executive's subsequent employer in response to a general advertisement soliciting employment. 10. REASONABLENESS OF RESTRICTION: REMEDIES. Executive has carefully read and considered the restrictive covenants set forth in Sections 7-9 hereof, and understands Executive's obligations thereunder, the limitations such obligations will impose upon Executive after termination of Executive's employment with Company, and that the Restricted Period extends for twelve (12) months after the termination of Executive's employment. Executive has had full opportunity to review with Executive's personal attorney this Agreement, including Sections 7-9, before executing the Agreement. Executive agrees that, as a result of Executive's position with Company, the length of the Restricted Period and each restriction set forth in Sections 7, 8 and 9 herein are (1) fair and reasonable, (2) reasonably required for the protection of the legitimate business interests and goodwill established by Company, and (3) not overly broad or unduly burdensome to Executive. Executive acknowledges that Executive's compliance with Executive's obligations and restrictive covenants set forth in this Agreement is necessary to protect the business and goodwill of Company. Executive agrees that Executive's breach of Executive's obligations and / or restrictive covenants under this Agreement may irreparably and continually damage Company, for which money damages may not be adequate. Consequently, Executive agrees that in the event that Executive breaches or threatens to breach any of the covenants or agreements contained herein, Company shall be entitled to: (a) seek injunctive relief to prevent or halt Executive from breaching this Agreement; and (b) money damages as determined appropriate by a court of competent jurisdiction. Executive hereby agrees that injunctive relief may be granted by a court of competent jurisdiction without the necessity of Company to post bond, or if required to post bond, Executive agrees that the lowest amount permitted shall be adequate. Nothing in this Agreement shall be construed to prohibit Company from pursuing any other remedy available or from seeking to enforce any restrictive covenants to a lesser extent than set forth herein. The Parties agree that all remedies shall be cumulative. Each party is responsible for its own costs and expenses, including attorneys' fees. 11. NO PRIOR RESTRICTIONS. Executive hereby represents and warrants to Company that the execution, delivery, and performance by Executive of Executive's duties under this Agreement do not violate any provision of any agreement or restrictive covenant which Executive has with any former employer or any other entity. Executive further agrees to honor and inform Company of any and all post-employment obligations Executive has to any former employer or any other entity with which Executive has or had a business relationship. 14. SECTION 409A. A. This Agreement is intended to comply with Section 409A of the Code and its corresponding regulations, or an exemption, and payments may only be made under this Agreement upon an event and in a manner permitted by Section 409A of the Code, to the extent applicable. Severance benefits under the Agreement are intended to be exempt from Section 409A of the Code under the "short-term deferral" exception, to the maximum extent applicable, and then under the "separation pay" exception, to the maximum extent applicable. Notwithstanding anything in this Agreement to the contrary, if required by Section 409A of the Code, if Executive is considered a "specified employee" for purposes of Section 409A and if payment of any amounts under this Agreement is required to be delayed for a period of six months after separation from service pursuant to Section 409A of the Code, payment of such amounts shall be delayed as required by Section 409A of the Code, and the accumulated amounts shall be paid in a lump sum payment within 10 days after the end of the six month period. If Executive dies during the postponement period prior to the payment of benefits, the amounts withheld on account of Section 409A of the Code shall be paid to the personal representative of Executive's estate within 60 days after the day of Executive's death. The Parties agree that this Section 14 shall not be construed in a manner so as to accelerate any payments due under this Agreement. 15. INDEMNIFICATION LIABILITY INSURANCE. Company shall indemnify and hold Executive harmless to the fullest extent permitted by the laws of Company's state of organization or incorporation in effect at the time against and in respect of any and all actions, suits, proceedings, claims, demands, judgments, costs, expenses (including advancement of reasonable attorney's fees), losses, and damages resulting from Executive's performance of Executive's duties and obligations with Company. Executive will be entitled to be covered, both during and, while potential liability exists, by any insurance policies the Employer may elect to maintain generally for the benefit of officers and directors of the Employer against all costs, charges and expenses incurred in connection with any action, suit or proceeding to which Executive may be made a party by reason of being an officer or director of Company in the same amount and to the same extent as Company covers its other officers and directors. These obligations shall survive the termination of Executive's employment with Company. 16. GENERAL PROVISIONS. A. Successors and Assigns. The rights and obligations under this Agreement shall survive the termination of Executive's services to Company in any capacity and shall inure to the benefit and shall be binding upon Executive's heirs and personal representatives. Executive's duties and obligations are personal in nature and Executive may not assign or delegate any duties under this Agreement without Company's prior written approval. Company shall require any successor (whether direct or indirect, by purchase, merger, consolidation, reorganization or otherwise) to all or substantially all of the business or assets of Company, within 15 days of such succession, expressly to assume and agree to perform this Agreement in the same manner and to the same extent as Company would be required to perform if no such succession had taken place and Executive acknowledges that in such event the obligations of Executive hereunder will continue to apply in favor of the successor. As used in this Agreement, "Company" shall mean Company and any such successor which assumes and agrees to perform the duties and obligations of Company under this Agreement by operation of law or otherwise. C. Governing Law: Jurisdiction. This Agreement shall be governed by and construed and enforced in accordance with the procedural and substantive laws of the State of Florida, without regard to its conflicts of laws provisions. The litigation of any disputes arising out of this Agreement shall take place in the appropriate federal or state court located in Osceola County, Florida. The parties, to the extent they can legally do so, hereby consent to service of process, and to be sued in the State of Florida and consent to the exclusive jurisdiction of the courts of the State of Florida and the United States District Court for the Middle District of Florida, as well as to the jurisdiction of all courts to which an appeal may be taken from such courts, for the purpose of any suit, action or other proceeding arising out of any of their obligations hereunder or with respect to the transactions contemplated hereby, and expressly waive any and all objections they may have to venue in such courts. Notwithstanding the foregoing, should Executive refuse to comply with an order or judgment of such court, then Company may enforce this Agreement and the order or judgment of such court in any jurisdiction it deems appropriate. E. Entire Agreement. This Agreement and its attached exhibits, which by this reference are hereby incorporated into and made a part of this Agreement as if set forth herein verbatim, contain the entire understanding of the parties to this Agreement and supersede and replace all former agreements or understandings, oral or written, between Company and Executive regarding the subject matter hereof. F. Modification and Waiver. This Agreement may not be amended except by a written instrument signed by both Parties which specifically refers to the particular provision or provisions being amended. No provision of this Agreement may be waived except in a written instrument that specifically refers to the particular provision or provisions being waived and is signed by the Party against whom the waiver is being asserted. No waiver by any Party of any right, power or privilege hereunder shall constitute a waiver of any other right, power or privilege hereunder, and no waiver by any party of any breach of a provision hereunder shall constitute a waiver of any other breach of that or any other provision of this Agreement. H. Assistance in Litigation. Executive shall reasonably cooperate with Company in the defense or prosecution of any claims or actions now in existence or that may be brought in the future against or on behalf of Company that relate to events or occurrences that transpired while Executive was employed by Company. Executive's cooperation in connection with such claims or actions shall include being available to meet with counsel to prepare for discovery or trial and to act as a witness on behalf of Company at mutually convenient times. Executive also shall cooperate fully with Company in connection with any investigation or review by any federal, state or local regulatory authority as any such investigation or review relates, to events or occurrences that transpired while Executive was employed by Company. Notwithstanding anything to the contrary in this Section 17 (H), unless otherwise mutually agreed between Executive and Company in writing and, for each day that Executive performs services under this Section 16 (H) Executive shall be reimbursed for his reasonable out-of-pocket expenses and, after the final payment by Company of any and all severance compensation due to Executive under Section 4 (E), Company shall pay Executive a per diem cash amount at Executive's Base Salary rate on the Date of Termination. I. Beneficiaries: References. Executive shall be entitled to select (and change to the extent permitted under any applicable law) a beneficiary or beneficiaries to receive any compensation or benefit payable hereunder following Executive's death, and may change such election, in either case by giving Company written notice thereof. In the event of Executive's death or a judicial determination of Executive's incompetence, reference in this Agreement to Executive shall be deemed, where appropriate, to refer to Executive's beneficiary, estate or other legal representative. Any reference to any gender in this Agreement shall include, where appropriate, the other gender. K. Effect of Heading. Headings to sections and paragraphs of this Agreement are for reference only, and do not form a part of this Agreement, or effect the interpretation of this Agreement. L. Counterparts. This Agreement may be executed in counterparts, including by transmission of facsimile or PDF copies of signature pages, each of which shall for all purposes be deemed to be an original and all of which shall constitute one instrument. All signatures of the parties transmitted by facsimile or PDF shall be deemed to be their original signatures for all purposes. IN WITNESS WHEREOF, Company has caused this Agreement to be duly executed and delivered by its duly authorized officer, and Executive has duly executed and delivered this Agreement, as of the date first written on page 1 of this Agreement. KEMPHARM, INC. ("COMPANY"); JOSHUA SCHAFFER: EXHIBIT A RELEASE OF CLAIMS THIS SEPARATION AGREEMENT AND

GENERAL RELEASE (the "Agreement") is made as of this day of, by and between Joshua Schafer ("Executive") and KemPharm, Inc. (the "Company"). WHEREAS, Executive is employed by Company as Chief Commercial Officer; WHEREAS, Executive and Company entered into an Executive Employment Agreement, dated January 1, 2023, (the "Employment Agreement") which provides for certain benefits in the event that Executive's employment is terminated on account of a reason set forth in the Employment Agreement; WHEREAS, Executive's employment with Company will terminate effective (the "Termination Date"); and 1. Executive, for and in consideration of the commitments of Company as set forth in paragraph 6 of this Agreement, and intending to be legally bound, does hereby REMISE, RELEASE AND FOREVER DISCHARGE Company, its stockholders, its present and past affiliates, subsidiaries and parents, their respective officers, directors, investors, employees, and agents, and their respective predecessors, successors and assigns, heirs, executors, and administrators (collectively, "Releasees"), subject to the exceptions of Section 2 of the Agreement, from all causes of action, suits, debts, claims and demands whatsoever in law or in equity, which Executive ever had, now has, or hereafter may have, whether known or unknown, or which Executive's heirs, executors, or administrators may have, by reason of any matter, cause or thing whatsoever, from the beginning of time to the date of this Agreement, to the extent arising from or relating in any way to Executive's employment relationship with Company, the terms and conditions of that employment relationship, and / or the termination of that employment relationship, including, but not limited to, (i) any claims for monetary damages arising under the Age Discrimination in Employment Act ("ADEA"), the Older Workers Benefit Protection Act ("OWBPA"), Title VII of The Civil Rights Act of 1964, the Americans with Disabilities Act; (ii) any and all claims arising under the Family and Medical Leave Act of 1993, the Employee Retirement Income Security Act of 1974, as amended; (iii) any and all claims arising under any applicable state and local fair employment practice laws and wage and hour laws; (iv) any other claims under any federal, state or local common law, statutory, or regulatory provision, now or hereafter recognized; and (v) any claims for attorneys' fees and costs. 2. The foregoing shall in no event apply to (i) enforcement by Executive of Executive's rights under this Agreement, (ii) Executive's rights as a stockholder in Company or any of its affiliates, (iii) Executive's rights to indemnifications under any separate contract or insurance policy, (iv) Executive's right to seek unemployment insurance benefits, (v) Executive's right to seek workers' compensation benefits, (vi) any rights Executive has to indemnification for service as an officer of Company, or (vii) any claims that, as a matter of applicable law, are not waivable. This Agreement is effective without regard to the legal nature of the claims raised and without regard to whether any such claims are based upon tort, equity, implied or express contract or discrimination of any sort. Executive and Company agree that nothing in this Agreement prevents or prohibits Executive from (i) making any disclosure of relevant and necessary information or documents in connection with any charge, action, investigation, or proceeding relating to this Agreement, or as required by law or legal process; (ii) participating, cooperating, or testifying in any charge, action, investigation, or proceeding with, or providing information to, any self-regulatory organization, governmental agency or legislative body, and / or pursuant to the Sarbanes-Oxley Act, (iii) filing, testifying, participating in or otherwise assisting in a proceeding relating to an alleged violation of any federal, state or municipal law relating to fraud, or any rule or regulation of the Securities and Exchange Commission or any self-regulatory organization or (iv) challenging the knowing and voluntary nature of the release of ADEA claims pursuant to the OWBPA. To the extent permitted by law, upon receipt of any subpoena, court order or other legal process compelling the disclosure of any such information or documents, Executive agrees to give prompt written notice to Company so as to permit Company to protect its interests in confidentiality to the fullest extent possible. To the fullest extent provided by law, Executive acknowledges and agrees, however, Executive is waiving any right to recover monetary damages in connection with any such charge, action, investigation or proceeding. To the extent Executive receives any monetary relief in connection with any such charge, action, investigation or proceeding, Company will be entitled to an offset for the benefits made pursuant to this Agreement, to the fullest extent provided by law. Executive and Company further agree that the Equal Employment Opportunity Commission ("EEOC") and comparable state or local agencies have the authority to carry out their statutory duties by investigating charges, issuing determinations, and filing lawsuits in Federal or state court in their own name, or taking any action authorized by the EEOC or comparable state or local agencies. Executive retains the right to participate in any such action and to seek any appropriate non-monetary relief. Executive retains the right to communicate with the EEOC and comparable state or local agencies and such communication can be initiated by Executive or in response to the government and such right is not limited by any non-disparagement claims. Executive and Company agree that communication with employees plays a critical role in the EEOC's enforcement process because employees inform the agency of employer practices that might violate the law. For this reason, the right to communicate with the EEOC is a right that is protected by federal law and this Agreement does not prohibit or interfere with those rights. Notwithstanding the foregoing, Executive agrees to waive Executive's right to recover monetary damages in any charge, complaint or lawsuit filed by Executive or by anyone else on Executive's behalf. 3. In consideration of Executive's agreement to comply with the covenants described in Section 6-10 of the Employment Agreement, Company agrees as set forth in paragraph 6 herein. 6. In consideration for Executive's agreement as set forth herein, Company agrees to pay and provide Executive with the severance benefits described in Section 4 (E) (I) of Executive's Employment Agreement. Executive agrees that Executive is not entitled to any payments, benefits, severance payments or other compensation beyond that expressly provided in Section 4 (E) (I) of Executive's Employment Agreement and the Accrued Benefits (as defined in Section 4 (B) of the Employment Agreement). 7. Executive understands and agrees that the payments, benefits and agreements provided in this Agreement are being provided to Executive in consideration for Executive's acceptance and execution of: and in reliance upon Executive's representations in, this Agreement. Executive acknowledges that if Executive had not executed this Agreement containing a release of all claims against Company and the Releasees, Executive would only have been entitled to the payments provided in Company's standard severance pay plan for employees. 8. Executive acknowledges and agrees that Company previously has satisfied any and all obligations owed to Executive under any employment agreement or offer letter Executive has with Company or a Releasee and, further, that this Agreement supersedes any and all prior agreements or understandings, whether written or oral, between the parties, excluding only Executive's and Company's post-termination obligations under Executive's Employment Agreement, Executive's rights under any outstanding equity grants in accordance with the terms of the applicable grant agreements, any obligations relating to the securities of Company or any of its affiliates and Company's obligations under Section 4 (E) (I) of Executive's Employment Agreement and to pay or provide the Accrued Benefits (as defined in Section 4 (B) of the Employment Agreement), all of which shall remain in full force and effect to the extent not inconsistent with this Agreement, and further, that, except as set forth expressly herein, no promises or representations have been made to Executive in connection with the termination of Executive's Employment Agreement or the terms of this Agreement. 9. Except as may be necessary to obtain approval or authorization to fulfill Executive's or its obligations hereunder or as required by applicable law and subject to the exceptions of Section 2 of the Agreement. (a) Executive agrees not to disclose the terms of this Agreement to anyone, except Executive's spouse, attorney and, as necessary, tax / financial advisor, and (b) Company agrees that the terms of this Agreement will not be disclosed. It is expressly understood that any violation of the confidentiality obligation imposed hereunder constitutes a material breach of this Agreement. c. That Company has provided Executive with a period of [twenty-one (21)] or [forty-five (45)] days within which to consider this Agreement, and that Executive has signed on the date indicated below after concluding that this Separation of Employment Agreement and General Release is satisfactory to Executive; and [Note: The applicable time period will depend on whether the termination is part of a reduction in force (45 days) or not (21 days). In addition, if the termination is in connection with a reduction in force, certain disclosures will need to be made to Executive to comply with the requirements of the ADEA if Executive is at least age 40.] Intending to be legally bound hereby, Executive and Company executed the foregoing Separation of Employment Agreement and General Release this day of By-----

-- Witness: Exhibit 10. 16 AMENDMENT TO THIS AMENDMENT TO EXECUTIVE EMPLOYMENT AGREEMENT (this "Amendment"), dated as of May 7, 2024, is entered into by and between Zevra Therapeutics, Inc. (the "Company") and Neil F. McFarlane ("Executive"). Capitalized terms used but not otherwise defined herein shall have the respective meanings ascribed to them in the Employment Agreement (as defined below). RECITALS WHEREAS, the Company and Executive are parties to that certain Executive Employment Agreement, effective as of October 10, 2023 (the "Employment Agreement"), which sets forth the terms and conditions of Executive's employment with the Company and its affiliates; and WHEREAS, the Company and Executive desire for the Employment Agreement to be amended as set forth herein. NOW, THEREFORE, in consideration of Executive's continued service with the Company and its subsidiaries and affiliates, and for other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the Company and Executive hereby agree as follows: 1. The first sentence of Section 2. F. (Commuting Expenses) is hereby amended and restated in its entirety to read as follows: "During the period beginning on the Effective Date and ending on October 31, 2024, so long as Executive remains an employee of Company, Company will reimburse Executive for reasonable commuting expenses (including airfare and lodging) to Celebration, Florida, less deductions and withholdings required by applicable law, if any (the "Commuting Expenses")." 2. All other provisions of the Employment Agreement shall remain in full force and effect according to their respective terms, and nothing contained herein shall be deemed a waiver of any right or abrogation of any obligation otherwise existing under the Employment Agreement except to the extent specifically provided for herein. This Amendment may be executed in any number of counterparts, each of which when so executed and delivered shall be taken to be an original; but such counterparts shall together constitute one and the same document. [Signature Page Follows] IN WITNESS WHEREOF, the Company and Executive have executed this Amendment effective as of the Amendment Effective Date. By: / s / R. LaDuane Clifton Name: LaDuane Clifton Title: Chief Financial Officer / s / Neil F. McFarlane Exhibit 19 INSIDER TRADING AND WINDOW PERIOD POLICY I. INTRODUCTION This policy determines acceptable transactions in the securities of Zevra Therapeutics, INC. (the "Company") by our employees, officers, directors and consultants. During the course of your relationship with the Company, you may receive important information that is not yet publicly available about the Company or about other publicly-traded companies with which the Company has business dealings ("material nonpublic information"). Because of your access to this material nonpublic information, you may be in a position to profit financially or avoid a loss by buying or selling, or in some other way dealing, in the Company's securities, or securities of another publicly-traded company, or to disclose such information to a third party who does so profit or avoid a loss (a "tippee"). II. INSIDER TRADING POLICY A. Securities Transactions This policy prohibits employees, officers, directors and consultants from trading while in the possession of material nonpublic information. In addition, use of material nonpublic information by someone for personal gain, or to pass on, or "tip," the material nonpublic information to someone who uses it for personal gain, is illegal, regardless of the quantity of securities or the amount of profit made or loss avoided, and is therefore prohibited. You can be held liable both for your own transactions and for transactions effected by a tippee, or even a tippee of a tippee. Furthermore, it is important that the appearance of insider trading in securities be avoided. The only exception is that transactions directly with the Company, e.g., option exercises for cash or purchases under the Company's employee stock purchase plan, are permitted. However, the subsequent sale (including the sale of shares in a cashless exercise program) or other disposition of such stock is fully subject to these restrictions. B. Material Nonpublic Information As a practical matter, it is sometimes difficult to determine whether you

possess material nonpublic information. The key to determining whether nonpublic information you possess about a public company is material nonpublic information is whether dissemination of the information would likely affect the market price of the company's stock or would likely be considered important, or "material," by investors who are considering trading in that company's stock. Certainly, if the information makes you want to trade, it would probably have the same effect on others. Remember, both positive and negative information can be material. If you possess material nonpublic information, you may not trade in a company's stock, advise anyone else to do so or communicate the information to anyone else until you know that the information has been publicly disseminated. This means that in some circumstances, you may have to forego a proposed transaction in a company's securities even if you planned to execute the transaction prior to learning of the material nonpublic information and even though you believe you may suffer an economic loss or sacrifice an anticipated profit by waiting. Although by no means an all-inclusive list, information about the following items may be considered to be material nonpublic information until it is publicly disseminated: (a) financial results or forecasts; (b) communications with government agencies; (c) important business developments such as trial results, developments regarding strategic collaborators or collaborations, or the status of regulatory submissions or approvals; (d) strategic plans; (e) discovery and development of new product candidates; (f) mergers or acquisitions or dispositions of assets, divisions, companies, etc.; (g) pending public or private sales of debt or equity securities; (h) declaration of stock splits, dividends or changes in dividend policy; (i) major contract awards or cancellations; (j) top management or control changes; (k) possible tender offers or proxy fights; (l) significant writeoffs; (m) significant litigation or regulatory actions; (n) impending bankruptcy; (o) gain or loss of significant partners, customers or suppliers; (p) pricing changes or discount policies; (q) corporate partner relationships; and (r) notice of issuance of patents. For information to be considered publicly disseminated, it must be widely disclosed through a press release or filing with the Securities and Exchange Commission, and a sufficient amount of time must have passed to allow the information to be fully absorbed by the market after being disclosed. The circulation of rumors, even if accurate and reported in the media, does not constitute public dissemination. Please consult with the Chief Legal Officer if you have questions about whether certain information has been publicly disseminated.

III. STOCK TRADING BY DIRECTORS, OFFICERS AND OTHER EMPLOYEES Because the officers and directors and certain members of management of the Company are the most visible to the public and are most likely, in the view of the public, to possess material nonpublic information about the Company, we require that they notify, and receive approval from, a Clearing Officer (as defined below) prior to engaging in transactions in the Company's securities and observe other restrictions designed to minimize the risk of apparent or actual insider trading. We also require that employees limit their transactions in the Company's securities to defined time periods following public dissemination of quarterly and annual financial results.

C. Covered Insiders The provisions outlined in this policy apply to all directors, officers, and employees of the Company. Any entities or family members whose trading activities are controlled or influenced by any of such persons, including any members of such persons' households (whether or not they are family members), are subject to the same restrictions.

D. Window Period Generally, except as set forth in this paragraph B and in paragraphs C, D and G of Section III of this policy, directors, officers and employees may transact in securities of the Company only during a "window period" that opens after two full trading days have elapsed after the public dissemination of the Company's annual or quarterly financial results and closes on the last trading day before the end of the quarter. This window period may be closed early or may not open if, in the judgment of the Company's Chief Legal Officer, there exists undisclosed information that would make trades inappropriate. It is important to note that the fact that the window period has closed early or has not opened should be considered material nonpublic information. Any proposed trade outside of the window period must be pre-cleared by the Clearing Officer.

E. Exceptions to Window Period 1. Option Exercises. Directors, officers, and employees may exercise options granted under the Company's stock option plans for cash [or surrender shares to the Company in payment of the exercise price or in satisfaction of any tax withholding obligations in a manner permitted by the applicable equity award agreement] without restriction to any particular period. However, the subsequent sale of the stock (including sales of stock in a cashless exercise) acquired upon the exercise of options is subject to all provisions of this policy.

2. Rule 10b5-1 Trading Plans. Purchases or sales of the Company's securities made pursuant to, and in compliance with, a previously established written contract, plan, or instruction established by a director, officer or employee (a "Trading Plan") that meets the requirements of Rule 10b5-1 ("Rule 10b5-1") under the Securities Exchange Act of 1934, as amended (the "Exchange Act") and that has been preapproved by a Clearing Officer may be made without restriction to any particular period. The Clearing Officer may impose such other conditions on the implementation and operation of the Trading Plan as the Clearing Officer deems necessary or advisable. Individuals may not adopt more than one Trading Plan at a time except under the limited circumstances permitted by Rule 10b5-1 and subject to preapproval by the Clearing Officer.

3. Non-Rule 10b5-1 Trading Arrangements. Purchases or sales of the Company's securities made pursuant to a "non-Rule 10b5-1 trading arrangement" as defined in Item 408(c) of Regulation S-K that has been preapproved by a Clearing Officer. An individual may only modify a Trading Plan or non-Rule 10b5-1 trading arrangement outside of a closed trading window and, in any event, when the individual does not possess material nonpublic information. Modifications to and terminations of a Trading Plan or non-Rule 10b5-1 trading arrangement are subject to preapproval by the Clearing Officer and modifications of a Trading Plan that change the amount, price, or timing of the purchase or sale of the securities underlying a Trading Plan will trigger a new Cooling-Off Period. The Company also reserves the right from time to time to suspend, discontinue, or otherwise prohibit transactions under a Trading Plan or non-Rule 10b5-1 trading arrangement if the Clearing Officer or the Board of Directors, in its discretion, determines that such suspension, discontinuation, or other prohibition is in the best interests of the Company. Compliance of a Trading Plan with the terms of Rule 10b5-1 and the execution of transactions pursuant to the Trading Plan are the sole responsibility of the person initiating the Trading Plan, and none of the Company, the Clearing Officer, or the Company's other employees assumes any liability for any delay in reviewing and/or refusing to approve a Trading Plan or non-Rule 10b5-1 trading arrangement submitted for approval, nor the legality or consequences relating to a person entering into, informing the Company of, or trading under, a Trading Plan or non-Rule 10b5-1 trading arrangement. The Clearing Officer must preapprove the establishment, amendment to or termination of such Trading Plan or non-Rule 10b5-1 trading arrangement.

F. Pre-Clearance and Advance Notice of Transactions In addition to the requirements of paragraph B above, officers and directors may not engage in any transaction in the Company's securities, including any purchase or sale in the open market, loan, option exercise, gift or other transfer of beneficial ownership without first obtaining pre-clearance of the transaction from the Company's Chief Legal Officer or his or her designee (each, a "Clearing Officer") at least two business days in advance of the proposed transaction. The Clearing Officer will then determine whether the transaction may proceed and, if so, will direct the Compliance Coordinator (as identified in the Company's Section 16 Compliance Program) to assist in complying with the reporting requirements under Section 16(a) of the Exchange Act, if any. Pre-cleared transactions not completed within ten business days shall require new pre-clearance under the provisions of this paragraph. The Company may, at its discretion, shorten such period of time.

G. Prohibition of Speculative or Short-term Trading No employee, officer, or director may engage in short sales, transactions in put or call options, hedging transactions (including prepaid variable forward contracts, equity swaps, collars, and exchange funds), or other inherently speculative transactions or transactions that hedge or offset, or are designed to hedge or offset, any decrease in the market value of the Company's securities at any time.

H. Prohibition on Pledging and Margin Loans. Individuals are also prohibited from pledging Company securities as collateral for a loan, purchasing Company securities on margin (i.e., borrowing money to purchase the securities), or placing Company securities in a margin account. This prohibition does not apply to cashless exercises of stock options under the Company's equity plans.

I. Short-Swing Trading / Control Stock / Section 16 Reports Officers and directors subject to the reporting obligations under Section 16 of the Exchange Act should take care not to violate the prohibition on short-swing trading (Section 16(b) of the Exchange Act) and the restrictions on sales by control persons (Rule 144 under the Securities Act of 1933, as amended), and should file all appropriate Section 16(a) reports (Forms 3, 4 and 5), which are enumerated and described in the Company's Section 16 Compliance Program, and any notices of sale required by Rule 144.

J. Prohibition of Trading During Pension Fund Blackouts In accordance with Regulation BTR under the Exchange Act, no director or executive officer of the Company shall, directly or indirectly, purchase, sell or otherwise acquire or transfer any equity security of the Company (other than an exempt security) during any "blackout period" (as defined in Regulation BTR) with respect to such equity security, if such director or executive officer acquires or previously acquired such equity security in connection with his or her service or employment as a director or executive officer. This prohibition shall not apply to any transactions that are specifically exempted from Section 306(a)(1) of the Sarbanes-Oxley Act of 2002 (as set forth in Regulation BTR), including but not limited to, purchases or sales of the Company's securities made pursuant to, and in compliance with, a Trading Plan; compensatory grants or awards of equity securities pursuant to a plan that, by its terms, permits executive officers and directors to receive automatic grants or awards and specifies the terms of the grants and awards; acquisitions or dispositions of equity securities involving a bona fide gift or by will or the laws of descent or pursuant to a domestic relations order; etc. The Company shall timely notify each director and executive officer of any blackout periods in accordance with the provisions of Regulation BTR.

IV. Duration of Policy's Applicability If you are in possession of material nonpublic information when your relationship with the Company concludes, you may not trade in the Company's securities or the securities of such other company until the information has been publicly disseminated or is no longer material.

V. Penalties Anyone who effects transactions in the Company's securities or the securities of other public companies (or provides information to enable others to do so) on the basis of material nonpublic information is subject to both civil liability and criminal penalties, as well as disciplinary action by the Company. An employee, officer, director or consultant who has questions about this policy should contact his or her own attorney or the Clearing Officer of the Company.

RECEIPT AND ACKNOWLEDGMENT OF ZEVR A THERAPEUTICS, INC.'S INSIDER TRADING AND WINDOW PERIOD POLICY I, _____, hereby acknowledge that I have received and read a copy of Zevra Therapeutics, Inc.'s "Insider Trading and Window Period Policy" and agree to comply with its terms. I understand that violation of insider trading laws or regulations may subject me to severe civil and / or criminal penalties, and that violation of the terms of the above - titled Policy may subject me to discipline by the Company, up to and including termination for cause.

Signature: Date: APPLICATION AND APPROVAL FOR TRADING OF ZEVR A THERAPEUTICS, INC. SECURITIES BY AN INSIDER Name: Title: Proposed Trade Date: Type of Security to be Traded: Type of Trade (Purchase / Sale): Number of Securities to be Traded: CERTIFICATION I, _____, hereby certify that (i) I am not in possession of any "material nonpublic information" concerning the Company (as defined in the Company's "Insider Trading and Window Period Policy") and (ii) to the best of my knowledge, the proposed trade(s) listed above do(es) not violate securities laws applicable to me. I understand that if I trade while possessing such material nonpublic information or in violation of such trading restrictions, even if this application is approved, I may be subject to severe civil and / or criminal penalties, and may be subject to discipline by the Company up to and including termination for cause.

Signature: REVIEW AND DECISION The undersigned hereby certifies that I have reviewed the foregoing application and _____ APPROVE _____ PROHIBIT the proposed trade(s).

Insider Trading Compliance Officer (or Designee) Date APPLICATION AND APPROVAL FOR

ADOPTION, MODIFICATION, OR TERMINATION OF A RULE 10b5-1 TRADING PLAN OR NON- RULE 10b5-1 TRADING ARRANGEMENT FOR TRADING OF ZEVRA THERAPEUTICS, INC. SECURITIES BY AN INSIDER Request for Approval for Adoption, Modification, or Termination: Proposed Plan Adoption, Modification or Termination Date: Number of Shares Covered under Plan: 1, _____, hereby certify that (i) attached to this Application is a true and correct copy of the Rule 10b5-1 Trading Plan or non- Rule 10b51 trading arrangement proposed to be adopted, modified, or terminated by me, (ii) I am not in possession of any " material nonpublic information " concerning the Company (as defined in the Company' s " Insider Trading and Window Period Policy ") and (iii) to the best of my knowledge, adoption by me of proposed plan or arrangement does not violate securities laws applicable to me. I understand that if I trade in violation of such trading restrictions, even if this application is approved, I may be subject to severe civil and / or criminal penalties and may be subject to discipline by the Company up to and including termination for cause. Signature Date _____ The undersigned hereby certifies that I have reviewed the foregoing application and _____ APPROVE

PROHIBIT the proposed adoption, modification, or termination of the plan or arrangement. Insider Trading Compliance Officer (or Designee) Date Exhibit 23. 1

Consent of Independent Registered Public Accounting Firm We consent to the incorporation by reference in the following Registration Statements: 1. Registration Statements (Form S- 3 Nos. 333- 252078, 333- 252903, 333- 257433, 333- 276856 and 333- 279941) of Zevra Therapeutics, Inc., 2. Registration Statement (Form S- 8 No. 333- 203703) pertaining to the Incentive Stock Plan, as amended, and the 2014 Equity Incentive Plan of Zevra Therapeutics, Inc., 3. Registration Statements (Form S- 8 Nos. 333- 210369, 333- 216858, 333- 224062, 333- 230041, 333- 236794 and 333- 252743) pertaining to the 2014 Equity Incentive Plan of Zevra Therapeutics, Inc., 4. Registration Statement (Form S- 8 No. 333- 257429) pertaining to the Amended and Restated 2014 Equity Incentive Plan, and the 2021 Employee Stock Purchase Plan of Zevra Therapeutics, Inc., 5. Registration Statement (Form S- 8 No. 333- 270341) pertaining to the 2023 Employment Inducement Award Plan of Zevra Therapeutics, Inc., 6. Registration Statement (Form S- 8 No. 333- 278445) pertaining to the Amended and Restated 2023 Employment Inducement Award Plan of Zevra Therapeutics, Inc., and 7. Registration Statements (Form S- 8 Nos. 333- 270340 and 333- 278444) pertaining to the Amended and Restated 2014 Equity Incentive Plan of Zevra Therapeutics, Inc.; of our report dated March 12, 2025, with respect to the financial statements of Zevra Therapeutics, Inc. included in this Annual Report (Form 10- K) of Zevra Therapeutics, Inc. for the year ended December 31, 2024. Exhibit 31. 1 I, Neil F. McFarlane, certify that: 1. I have reviewed this Annual Report on Form 10- K of Zevra Therapeutics, Inc.; 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report; 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report; 4. The registrant' s other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a- 15 (e) and 15d- 15 (e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a- 15 (f) and 15d- 15 (f)) for the registrant and have: (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared; (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles; (c) Evaluated the effectiveness of the registrant' s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and (d) Disclosed in this report any change in the registrant' s internal control over financial reporting that occurred during the registrant' s most recent fiscal quarter (the registrant' s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant' s internal control over financial reporting; and 5. The registrant' s other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant' s auditors and the audit committee of the registrant' s board of directors (or persons performing the equivalent functions): (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant' s ability to record, process, summarize and report financial information; and (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant' s internal control over financial reporting. March 12, 2025 / s / Neil F. McFarlane Name: Neil F. McFarlane Title: President and Chief Executive Officer (Principal Executive Officer) Exhibit 31. 2 I, R. LaDuane Clifton, certify that: March 12, 2025 / s / R. LaDuane Clifton Name: R. LaDuane Clifton, MBA, CPA Title: Chief Financial Officer and Treasurer (Principal Financial Officer) Exhibit 32. 1 **CERTIFICATION OF THE PRINCIPAL EXECUTIVE OFFICER PURSUANT TO 18 U. S. C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES- OXLEY ACT OF 2002** In connection with the Annual Report on Form 10- K of Zevra Therapeutics, Inc., (the " Company ") for the fiscal year ended December 31, 2024, as filed with the Securities and Exchange Commission on the date hereof (the " Report "), I, Neil F. McFarlane, Principal Executive Officer of the Company, certify, pursuant to 18 U. S. C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes- Oxley Act of 2002, that, to my knowledge: 1. The Report fully complies with the requirements of Section 13 (a) or 15 (d) of the Securities Exchange Act of 1934; and 2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company. The foregoing certification is being furnished solely pursuant to 18 U. S. C. Section 1350, is not being " filed " by the Company as part of the Report or as a separate disclosure document and is not to be incorporated by reference into any filing of the Company under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended (whether made before or after the date of the Report), irrespective of any general incorporation language contained in such filing. Exhibit 32. 2 **CERTIFICATION OF THE PRINCIPAL FINANCIAL OFFICER** In connection with the Annual Report on Form 10- K of Zevra Therapeutics, Inc., (the " Company ") for the fiscal year ended December 31, 2024, as filed with the Securities and Exchange Commission on the date hereof (the " Report "), I, R. LaDuane Clifton, Principal Financial Officer of the Company, certify, pursuant to 18 U. S. C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes- Oxley Act of 2002, that, to my knowledge: March 12, 2025 / s / R. LaDuane Clifton Name: R. LaDuane Clifton, MBA, CPA Title: Chief Financial Officer and Treasurer (Principal Financial Officer) v3. 25. 0. 1 Document And Entity Information- USD (S) 12 Months Ended Dec. 31, 2024 Mar. 07, 2025 Jun. 30, 2024 Document Information [Line Items] Entity Central Index Key Entity Registrant Name ZEVRA THERAPEUTICS, INC. Amendment Flag false Current Fiscal Year End Date-- 12- 31 Document Fiscal Period Focus FY Document Fiscal Year Focus Document Type 10- K Document Annual Report true Document Period End Date Dec. 31, 2024 Document Transition Report false Entity File Number 001- 36913 Entity Incorporation, State or Country Code DE Entity Tax Identification Number 20- 5894398 Entity Address, Address Line One 1180 Celebration Boulevard, Suite 103 Entity Address, City or Town Celebration Entity Address, State or Province FL Entity Address, Postal Zip Code City Area Code Local Phone Number 939- 3416 Title of 12 (h) Security Common Stock, \$ 0. 0001 par value Trading Symbol ZVRA Security Exchange Name NASDAQ Entity Well- known Seasoned Issuer No Entity Voluntary Filers No Entity Current Reporting Status Yes Entity Interactive Data Current Yes Entity Filer Category Non- accelerated Filer Entity Small Business true Entity Emerging Growth Company false ICFR Auditor Attestation Flag false Document Financial Statement Error Correction [Flag] false Entity Shell Company false Entity Public Float \$ 204, 800, 000 Entity Common Stock, Shares Outstanding 54, 115, 869 Auditor Firm ID Auditor Name Ernst & Young LLP Auditor Location Orlando, Florida X- Definition Boolean flag that is true when the XBRL content amends previously- filed or accepted submission. References No definition available. Details Name: dei_ Amendment Flag Namespace Prefix: dei_ Data Type: xbrli: booleanItemType Balance Type: na Period Type: durationX- Definition PCAOB issued Audit Firm Identifier References Reference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 10- K- Number 249- Section 310> Reference 2: [http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 10- K- Number 249- Section 310](http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20- F- Number 249- Section 220- Subsection fDetails Name: dei_AuditorFirmId Namespace Prefix: dei_ Data Type: dei: nonemptySequenceNumberItemType Balance Type: na Period Type: durationX- References Reference 1: http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 10- K- Number 249- Section 310 Reference 2: http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20- F- Number 249- Section 220- Subsection fReference 3: http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 40- F- Number 249- Section 240- Subsection fDetails Name: dei_AuditorLocation Namespace Prefix: dei_ Data Type: dei: internationalNameItemType Balance Type: na Period Type: durationX- References Reference 1: http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 10- K- Number 249- Section 310 Reference 2: http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20- F- Number 249- Section 220- Subsection fReference 3: http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 40- F- Number 249- Section 240- Subsection fDetails Name: dei_AuditorName Namespace Prefix: dei_ Data Type: dei: internationalNameItemType Balance Type: na Period Type: durationX- Definition Area code of city References No definition available. Details Name: dei_CityAreaCode Namespace Prefix: dei_ Data Type: xbrli: normalizedStringItemType Balance Type: na Period Type: durationX- Definition End date of current fiscal year in the format-- MM- DD. References No definition available. Details Name: dei_CurrentFiscalYearEnd Date Namespace Prefix: dei_ Data Type: xbrli: gMonthDayItemType Balance Type: na Period Type: durationX- Definition Boolean flag that is true only for a form used as an annual report. References Reference 1: <a href=) Reference 2: [http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S- K- Number 229- Section 402- Subsection w](http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20- F- Number 249- Section 220- Subsection fReference 3: http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 40- F- Number 249- Section 240- Subsection fDetails Name: dei_DocumentAnnualReport Namespace Prefix: dei_ Data Type: xbrli: booleanItemType Balance Type: na Period Type: durationX- Definition Indicates whether any of the financial statement period in the filing include a restatement due to error correction. References Reference 1: <a href=) Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 10- K- Number 249- Section 310> Reference 3:

annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006. ReferencesNo definition available. Details Name: dei_DocumentFiscalYearFocus Namespace Prefix: dei_Data Type: xbrli:gYearItemType Balance Type: na Period Type: durationX-DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. ReferencesNo definition available. Details Name: dei_DocumentInformationLineItems Namespace Prefix: dei_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX-DefinitionFor the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD. ReferencesNo definition available. Details Name: dei_DocumentPeriodEndDate Namespace Prefix: dei_Data Type: xbrli:dateItemType Balance Type: na Period Type: durationX-DefinitionBoolean flag that is true only for a form used as a transition report. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Forms 10-K, 10-Q, 20-F-Number 240-Section 13-Subsection a-1> Details Name: dei_DocumentTransitionReport Namespace Prefix: dei_Data Type: xbrli:booleanItemType Balance Type: na Period Type: durationX-DefinitionThe type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other'. ReferencesNo definition available. Details Name: dei_DocumentType Namespace Prefix: dei_Data Type: dei_submissionTypeItemType Balance Type: na Period Type: durationX-DefinitionAddress Line 1 such as Attn, Building Name, Street Name ReferencesNo definition available. Details Name: dei_EntityAddressAddressLine1 Namespace Prefix: dei_Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: durationX-DefinitionName of the City or Town ReferencesNo definition available. Details Name: dei_EntityAddressCityOrTown Namespace Prefix: dei_Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: durationX-DefinitionCode for the postal or zip code ReferencesNo definition available. Details Name: dei_EntityAddressPostalZipCode Namespace Prefix: dei_Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: durationX-DefinitionName of the state or province. ReferencesNo definition available. Details Name: dei_EntityAddressStateOrProvince Namespace Prefix: dei_Data Type: dei_stateOrProvinceItemType Balance Type: na Period Type: durationX-DefinitionA unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. It is commonly abbreviated as CIK. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b-2> Details Name: dei_EntityCentralIndexKey Namespace Prefix: dei_Data Type: dei_centralIndexKeyItemType Balance Type: na Period Type: durationX-DefinitionIndicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class / interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings. Instrument. ReferencesNo definition available. Details Name: dei_EntityCommonStockSharesOutstanding Namespace Prefix: dei_Data Type: xbrli:sharesItemType Balance Type: na Period Type: instantX-DefinitionIndicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15 (d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure. ReferencesNo definition available. Details Name: dei_EntityCurrentReportingStatus Namespace Prefix: dei_Data Type: dei_yesNoItem Balance Type: na Period Type: durationX-DefinitionIndicate if registrant meets the emerging growth company criteria. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b-2> Details Name: dei_EntityEmergingGrowthCompany Namespace Prefix: dei_Data Type: xbrli:booleanItemType Balance Type: na Period Type: durationX-DefinitionCommission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen. ReferencesNo definition available. Details Name: dei_EntityFileNumber Namespace Prefix: dei_Data Type: dei_fileNumberItemType Balance Type: na Period Type: durationX-DefinitionIndicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b-2> Details Name: dei_EntityFilerCategory Namespace Prefix: dei_Data Type: dei_filerCategoryItemType Balance Type: na Period Type: durationX-DefinitionTwo-character EDGAR code representing the state or country of incorporation. ReferencesNo definition available. Details Name: dei_EntityIncorporationStateCountryCode Namespace Prefix: dei_Data Type: dei_edgarStateCountryItemType Balance Type: na Period Type: durationX-DefinitionBoolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 232-Section 405> Details Name: dei_EntityInteractiveDataCurrent Namespace Prefix: dei_Data Type: dei_yesNoItem Balance Type: na Period Type: durationX-DefinitionThe aggregate market value of the voting and non-voting common equity held by non-affiliates computed by reference to the price at which the common equity was last sold, or the average bid and asked price of such common equity, as of the last business day of the registrant's most recently completed second fiscal quarter. ReferencesNo definition available. Details Name: dei_EntityPublicFloat Namespace Prefix: dei_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-DefinitionThe exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b-2> Details Name: dei_EntityRegistrantName Namespace Prefix: dei_Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: durationX-DefinitionBoolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b-2> Details Name: dei_EntityShellCompany Namespace Prefix: dei_Data Type: xbrli:booleanItemType Balance Type: na Period Type: durationX-DefinitionIndicates that the company is a Smaller Reporting Company (SRC). ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b-2> Details Name: dei_EntitySmallBusiness Namespace Prefix: dei_Data Type: xbrli:booleanItemType Balance Type: na Period Type: durationX-DefinitionThe Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b-2> Details Name: dei_EntityTaxIdentificationNumber Namespace Prefix: dei_Data Type: dei_employerIdItemType Balance Type: na Period Type: durationX-DefinitionIndicate 'Yes' or 'No' if the registrant is not required to file reports pursuant to Section 13 or Section 15 (d) of the Act. ReferencesNo definition available. Details Name: dei_EntityVoluntaryFilers Namespace Prefix: dei_Data Type: dei_yesNoItem Balance Type: na Period Type: durationX-DefinitionIndicate 'Yes' or 'No' if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Is used on Form Type: 10-K, 10-Q, 8-K, 20-F, 6-K, 10-K/A, 10-Q/A, 20-F/A, 6-K/A, N-CSR, N-Q, N-1A. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Securities Act-Number 230-Section 405> Details Name: dei_EntityWellKnownSeasonedIssuer Namespace Prefix: dei_Data Type: dei_yesNoItem Balance Type: na Period Type: durationX-ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Form 10-K-Number 249-Section 310>Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Form 20-F-Number 249-Section 220-Subsection f> Details Name: dei_IcfrAuditorAttestationFlag Namespace Prefix: dei_Data Type: xbrli:booleanItemType Balance Type: na Period Type: durationX-DefinitionLocal phone number for entity. ReferencesNo definition available. Details Name: dei_LocalPhoneNumber Namespace Prefix: dei_Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: durationX-DefinitionTitle of a 12 (b) registered security. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section 12-Subsection b> Details Name: dei_Security12bTitle Namespace Prefix: dei_Data Type: dei_securityTitleItemType Balance Type: na Period Type: durationX-DefinitionName of the Exchange on which a security is registered. ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC-Name Exchange Act-Number 240-Section d1-1> Details Name: dei_SecurityExchangeName Namespace Prefix: dei_Data Type: dei_edgarExchangeCodeItemType Balance Type: na Period Type: durationX-DefinitionTrading symbol of an instrument as listed on an exchange. ReferencesNo definition available. Details Name: dei_TradingSymbol Namespace Prefix: dei_Data Type: dei_tradingSymbolItemType Balance Type: na Period Type: durationConsolidated Balance Sheets- USD (\$) in Thousands Dec. 31, 2024 Dec. 31, 2023 Assets [Abstract] Cash and cash equivalents \$ 33, 785 \$ 43, 049Securities at fair value, current 35, 711 24, 688Accounts and other receivables 10, 509 17, 377Prepaid expenses and other current assets 4, 052 1, 824Inventories, current 1, 970Total current assets 86, 027 86, 938Securities at fair value, noncurrent 6, 010Inventories, noncurrent 10, 999 9, 841Property, Plant and Equipment, NetOperating lease right-of-use assetsGoodwill acquired 4, 701 4, 701Intangible assets, net 68, 993 69, 227Other long-term assetsTotal assets 178, 127 172, 327Liabilities and stockholders' equity Accounts payable and accrued expenses 25, 456 28, 403Line of credit payable 37, 700Current portion of operating lease liabilitiesCurrent portion of discount and rebate liabilities 4, 989 4, 550Other current liabilities 3, 200 2, 524Total current liabilities 34, 065 33, 720Long-term debt 59, 504 5, 066Derivative and warrant liability 17, 804 16, 100Income tax payable, noncurrent 14, 431Operating lease liabilities, less current portionDiscount and rebate liabilities, less current portion 7, 655 7, 663Other long-term liabilities 4, 630 7, 458Total liabilities 138, 461 110, 463Commitments and contingencies (Note K) Stockholders' equity: Common stock, \$ 0.0001 par value, 250, 000, 000 shares authorized, 55, 246, 401 shares issued and 53, 670, 709 shares outstanding as of December 31, 2024; 43, 110, 360 shares issued and 41, 534, 668 shares outstanding as of December 31, 2023Additional paid-in capital 555, 302 472, 664Treasury stock, at cost (10, 983) (10, 983) Accumulated deficit (505, 289) (399, 778) Accumulated other comprehensive income (loss) (43) Total stockholders' equity 39, 666 61, 864Total liabilities and stockholders' equity 178, 127 172, 327Undesignated Preferred Stock [Member] Stockholders' equity: Undesignated preferred stock, \$ 0.0001 par value, 10, 000, 000 shares authorized, no shares issued or outstanding as of December 31, 2024 or December 31, 2023 \$ 0 \$ 0X-DefinitionAmount, after allowance, receivable from customers, clients, or other third-parties, and receivables classified as other due within one year or the normal operating cycle, if longer. ReferencesNo definition available. Details Name: us-gaap_AccountsAndOtherReceivablesNetCurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-DefinitionSum of the carrying values as of the balance sheet date of obligations incurred through that date and due within one year (or the operating cycle, if longer), including liabilities incurred (and for which invoices have

typically been received) and payable to vendors for goods and services received, taxes, interest, rent and utilities, accrued salaries and bonuses, payroll taxes and fringe benefits. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(20\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (20)))- Publisher FASB- URI [https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(19\)\)](https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (19)))- Publisher FASB- URI [https://asc.fasb.org/1943274/2147480566/210-10-S99-1Details Name: us-gaap_AccountsPayableAndAccruedLiabilitiesCurrent Namespace Prefix: us-gaap_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionCarrying amount as of the balance sheet date of the unpaid sum of the known and estimated amounts payable to satisfy all domestic and foreign income tax obligations due beyond one year or the operating cycle, whichever is longer. Alternate captions include income taxes payable, noncurrent. ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(24\)\)](https://asc.fasb.org/1943274/2147480566/210-10-S99-1Details Name: us-gaap_AccountsPayableAndAccruedLiabilitiesCurrent Namespace Prefix: us-gaap_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionCarrying amount as of the balance sheet date of the unpaid sum of the known and estimated amounts payable to satisfy all domestic and foreign income tax obligations due beyond one year or the operating cycle, whichever is longer. Alternate captions include income taxes payable, noncurrent. ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (24)))- Publisher FASB- URI [https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 9-03 \(15\) \(1\)\)](https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 9-03 (15) (1)))- Publisher FASB- URI [https://asc.fasb.org/1943274/2147478546/942-210-S99-1Details Name: us-gaap_AccruedIncomeTaxesNoncurrent Namespace Prefix: us-gaap_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAmount, after tax, of accumulated increase \(decrease\) in equity from transaction and other event and circumstance from nonowner source. ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Section 45-Paragraph 14A-Subparagraph \(SX 210. 9-03 \(15\) \(1\)\)](https://asc.fasb.org/1943274/2147478546/942-210-S99-1Details Name: us-gaap_AccruedIncomeTaxesNoncurrent Namespace Prefix: us-gaap_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAmount, after tax, of accumulated increase (decrease) in equity from transaction and other event and circumstance from nonowner source. ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Section 45-Paragraph 14A-Subparagraph (SX 210. 9-03 (15) (1)))- Publisher FASB- URI [https://asc.fasb.org/1943274/2147482790/220-10-45-14AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 11-Subparagraph \(SX 210. 9-03 \(15\) \(1\)\)](https://asc.fasb.org/1943274/2147482790/220-10-45-14AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 11-Subparagraph (SX 210. 9-03 (15) (1)))- Publisher FASB- URI [https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 7-03 \(a\) \(23\) \(a\) \(3\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 220-SubTopic 10-Section 45-Paragraph 14-Subparagraph \(SX 210. 9-03 \(15\) \(1\)\)](https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 3: http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 2-Subparagraph (g) (2) (ii)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 2-Subparagraph (h) (2)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 7-03 (a) (23) (a) (3))- Publisher FASB- URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 220-SubTopic 10-Section 45-Paragraph 14-Subparagraph (SX 210. 9-03 (15) (1)))- Publisher FASB- URI

323- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 3- Subparagraph (c)- Publisher FASB- URI <https://asc.fasb.org/1943274/2147481687/323-10-50-3>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 825- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 28- Subparagraph \(f\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482907/825-10-50-28](http://www.xbrl.org/2003/role/disclosureRef-Topic 825- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 28- Subparagraph (f)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482907/825-10-50-28)Reference 6: <http://www.xbrl.org/2003/role/exampleRef-Topic 852- SubTopic 10- Name Accounting Standards Codification- Section 55- Paragraph 10- Publisher FASB- URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section 45- Paragraph 1- Publisher FASB- URI https://asc.fasb.org/1943274/2147483467/210-10-45-1>Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph \(SX 210. 5- 02 \(9\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480566/210-10- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph (SX 210. 5- 02 (9))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480566/210-10- S99-1)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1A- Subparagraph \(SX 210. 13- 01 \(a\) \(4\) \(i\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1A- Subparagraph (SX 210. 13- 01 (a) (4) (i))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1)Reference 10: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1A- Subparagraph \(SX 210. 13- 01 \(a\) \(4\) \(ii\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1A- Subparagraph (SX 210. 13- 01 (a) (4) (ii))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1)Reference 11: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1A- Subparagraph \(SX 210. 13- 01 \(a\) \(4\) \(iii\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1A- Subparagraph (SX 210. 13- 01 (a) (4) (iii))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1)Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1A- Subparagraph \(SX 210. 13- 01 \(a\) \(4\) \(iii\) \(A\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1A- Subparagraph (SX 210. 13- 01 (a) (4) (iii) (A))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1)Reference 13: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1A- Subparagraph \(SX 210. 13- 01 \(a\) \(4\) \(iv\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1A- Subparagraph (SX 210. 13- 01 (a) (4) (iv))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1)Reference 14: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1A- Subparagraph \(SX 210. 13- 01 \(a\) \(5\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1A- Subparagraph (SX 210. 13- 01 (a) (5))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1)Reference 15: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1B- Subparagraph \(SX 210. 13- 02 \(a\) \(4\) \(i\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1B- Subparagraph (SX 210. 13- 02 (a) (4) (i))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1)Reference 16: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1B- Subparagraph \(SX 210. 13- 02 \(a\) \(4\) \(iii\) \(A\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1B- Subparagraph (SX 210. 13- 02 (a) (4) (iii) (A))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1)Reference 17: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1B- Subparagraph \(SX 210. 13- 02 \(a\) \(4\) \(iii\) \(B\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1B- Subparagraph (SX 210. 13- 02 (a) (4) (iii) (B))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1)Reference 18: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1B- Subparagraph \(SX 210. 13- 02 \(a\) \(4\) \(iv\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1B- Subparagraph (SX 210. 13- 02 (a) (4) (iv))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1)Reference 19: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1B- Subparagraph \(SX 210. 13- 02 \(a\) \(5\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 470- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1B- Subparagraph (SX 210. 13- 02 (a) (5))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480097/470-10- S99-1)Reference 20: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 852- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 7- Subparagraph \(a\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147481404/852-10-50-7](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 852- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 7- Subparagraph (a)- Publisher FASB- URI https://asc.fasb.org/1943274/2147481404/852-10-50-7) Details Name: us- gaap_AvailableForSaleSecuritiesDebtSecuritiesCurrent Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available- for- sale), classified as current. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 320- SubTopic 10- Name Accounting Standards Codification- Section 45- Paragraph 2- Publisher FASB- URI https://asc.fasb.org/1943274/2147481830/320-10-45-2>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 326- SubTopic 30- Name Accounting Standards Codification- Section 45- Paragraph 1- Publisher FASB- URI https://asc.fasb.org/1943274/2147479130/326-30-45-1> Details Name: us- gaap_AvailableForSaleSecuritiesDebtSecuritiesNoncurrent Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available- for- sale), classified as noncurrent. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 320- SubTopic 10- Name Accounting Standards Codification- Section 45- Paragraph 2- Publisher FASB- URI https://asc.fasb.org/1943274/2147481830/320-10-45-2>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph \(SX 210. 5- 02 \(12\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480566/210-10- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph (SX 210. 5- 02 (12))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480566/210-10- S99-1)Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 326- SubTopic 30- Name Accounting Standards Codification- Section 45- Paragraph 1- Publisher FASB- URI https://asc.fasb.org/1943274/2147479130/326-30-45-1> Details Name: us- gaap_AvailableForSaleSecuritiesDebtSecuritiesNoncurrent Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short- term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph \(SX 210. 5- 02 \(1\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480566/210-10- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph (SX 210. 5- 02 (1))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480566/210-10- S99-1)Reference 2: [http://www.xbrl.org/2003/role/exampleRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section 45- Paragraph 1- Subparagraph \(a\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147483467/210-10-45-1](http://www.xbrl.org/2003/role/exampleRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section 45- Paragraph 1- Subparagraph (a)- Publisher FASB- URI https://asc.fasb.org/1943274/2147483467/210-10-45-1)Reference 3: <http://asc.fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification- Topic 230- SubTopic 10- Section 45- Paragraph 4- Publisher FASB- URI https://asc.fasb.org/1943274/2147482740/230-10-45-4> Details Name: us- gaap_CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionRepresents the caption on the face of the balance sheet to indicate that the entity has entered into (1) purchase or supply arrangements that will require expending a portion of its resources to meet the terms thereof, and (2) is exposed to potential losses or, less frequently, gains, arising from (a) possible claims against a company's resources due to future performance under contract terms, and (b) possible losses or likely gains from uncertainties that will ultimately be resolved when one or more future events that are deemed likely to occur do occur or fail to occur. 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This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity. 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ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 280- SubTopic 10- Name Accounting Standards Codification- Section 55- Paragraph 49- Publisher FASB- URI https://asc.fasb.org/1943274/2147482785/280-10-55-49>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 350- SubTopic 20- Name Accounting Standards Codification- Section 55- Paragraph 24- Publisher FASB- URI https://asc.fasb.org/1943274/2147482548/350-20-55-24>Reference 3: [http://www.xbrl.org/2003/role/exampleRef-Topic 820- SubTopic 10- Name Accounting Standards Codification- Section 55- Paragraph 100- Subparagraph \(d\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482078/820-10-55-100](http://www.xbrl.org/2003/role/exampleRef-Topic 820- SubTopic 10- Name Accounting Standards Codification- Section 55- Paragraph 100- Subparagraph (d)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482078/820-10-55-100)Reference 4: <http://www.xbrl.org/2003/role/exampleRef-Topic 852- SubTopic 10- Name Accounting Standards Codification- Section 55- Paragraph 10- Publisher FASB- URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph \(SX 210. 5- 02 \(15\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480566/210-10- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph (SX 210. 5- 02 (15))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480566/210-10- S99-1)Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic 350- SubTopic 20- Name Accounting Standards Codification- Section 45- Paragraph 1- Publisher FASB- URI https://asc.fasb.org/1943274/2147482598/350-20-45-1>Reference 7: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350- SubTopic 20- Name Accounting Standards Codification- Section 50- Paragraph 1- Subparagraph \(a\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482573/350-20-50-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350- SubTopic 20- Name Accounting Standards Codification- Section 50- Paragraph 1- Subparagraph (a)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482573/350-20-50-1)Reference 8: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350- SubTopic 20- Name Accounting Standards Codification- Section 50- Paragraph 1- Subparagraph \(b\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482573/350-20-50-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350- SubTopic 20- Name Accounting Standards Codification- Section 50- Paragraph 1- Subparagraph (b)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482573/350-20-50-1)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 942- SubTopic 210- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph \(SX 210. 9- 03 \(11\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147478546/942-210- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 942- SubTopic 210- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph (SX 210. 9- 03 (11))- Publisher FASB- URI https://asc.fasb.org/1943274/2147478546/942-210- S99-1) Details Name: us- gaap_Goodwill Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionSum of the carrying amounts of all intangible assets, excluding goodwill, as of the balance sheet date, net of accumulated amortization and impairment charges. 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(a) (i)- Publisher FASB- URI <https://asc.fasb.org/1943274/2147482665/350-30-50-2>Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section45-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482686/350-30-45-1> Details Name: us- gaap_ IntangibleAssetsNetExcludingGoodwill Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. 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ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(17\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(17))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Details Name: us- gaap_ InventoryNoncurrent Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of liability recognized for present obligation requiring transfer or otherwise providing economic benefit to others. ReferencesReference 1: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(22\)\)-SubTopic10-Topic210-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://asc.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(22))-SubTopic10-Topic210-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(20\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(20))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 3: 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[http://www.xbrl.org/2003/role/exampleRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph30-Subparagraph\(d\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-30](http://www.xbrl.org/2003/role/exampleRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph30-Subparagraph(d)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-30) Details Name: us- gaap_ Liabilities Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAmount of liabilities and equity items, including the portion of equity attributable to noncontrolling interests, if any. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic852-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph10-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.7-03\(a\)\(25\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.7-03(a)(25))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478777/944-210-S99-1)Reference 3: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic235-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.4-08\(g\)\(1\)\(ii\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic235-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.4-08(g)(1)(ii))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480678/235-10-S99-1)Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic323-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481687/323-10-50-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic323-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481687/323-10-50-3)Reference 5: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic825-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph28-Subparagraph\(f\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482907/825-10-50-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic825-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph28-Subparagraph(f)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482907/825-10-50-28)Reference 6: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic942-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.9-03\(23\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478546/942-210-S99-1](http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic942-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.9-03(23))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478546/942-210-S99-1)Reference 7: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(32\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(32))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Details Name: us- gaap_ LiabilitiesAndStockholdersEquity Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- ReferencesNo definition available. Details Name: us- gaap_ LiabilitiesAndStockholdersEquityAbstract Namespace Prefix: us- gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionTotal obligations incurred as part of normal operations that are expected to be paid during the following twelve months or within one business cycle, if longer. ReferencesReference 1: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(21\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(21))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic810-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481203/810-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic810-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481203/810-10-50-3)Reference 3: 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[http://www.xbrl.org/2003/role/disclosureRef-Topic810-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-Subparagraph\(bb\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481203/810-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic810-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-Subparagraph(bb)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481203/810-10-50-3)Reference 14: [http://www.xbrl.org/2003/role/disclosureRef-Topic235-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.4-08\(g\)\(1\)\(ii\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic235-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.4-08(g)(1)(ii))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480678/235-10-S99-1)Reference 15:

asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 6:

instantX- DefinitionAmount of accumulated undistributed earnings (deficit). ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(30\) \(a\) \(3\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (30) (a) (3))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB-URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 2-Subparagraph \(g\) \(2\) \(i\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480016/944-40-65-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 2-Subparagraph (g) (2) (i)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480016/944-40-65-2)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 2-Subparagraph \(h\) \(2\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480016/944-40-65-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 2-Subparagraph (h) (2)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480016/944-40-65-2)Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 11-Publisher FASB-URI https://asc.fasb.org/1943274/2147480990/946-20-50-11>Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 7-03 \(a\) \(23\) \(a\) \(4\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 7-03 (a) (23) (a) (4))-Publisher FASB-URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-04 \(17\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-04 (17))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1)Reference 8: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 3-04\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 3-04)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1)Details Name: us-gaap_RetainedEarningsAccumulatedDeficit Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(30\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (30))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(31\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (31))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 4: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB-URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 5: <http://www.xbrl.org/2003/role/exampleRef-Topic 946-SubTopic 830-Name Accounting Standards Codification-Section 55-Paragraph 12-Publisher FASB-URI https://asc.fasb.org/1943274/2147479168/946-830-55-12>Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-04 \(19\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-04 (19))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 6-05 \(4\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 6-05 (4))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2)Reference 8: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(4\) \(b\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (4) (b))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(6\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (6))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3)Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(7\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (7))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3)Reference 11: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 4-08 \(g\) \(1\) \(ii\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (g) (1) (ii))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1)Reference 12: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481687/323-10-50-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 323-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481687/323-10-50-3)Reference 13: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph \(f\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482907/825-10-50-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 825-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 28-Subparagraph (f)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482907/825-10-50-28)Reference 14: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 310-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SAB Topic 4. E\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 310-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SAB Topic 4. E)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2)Details Name: us-gaap_StockholdersEquity Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX- ReferencesNo definition available. Details Name: us-gaap_StockholdersEquityAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX- DefinitionThe amount allocated to treasury stock. Treasury stock is common and preferred shares of an entity that were issued, repurchased by the entity, and are held in its treasury. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(30\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (30))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 505-SubTopic 30-Section 45-Paragraph 1-Publisher FASB-URI https://asc.fasb.org/1943274/2147481520/505-30-50-4>Reference 4: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 505-SubTopic 30-Section 45-Paragraph 1-Publisher FASB-URI https://asc.fasb.org/1943274/2147481549/505-30-45-1>Details Name: us-gaap_TreasuryStockValue Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX- DefinitionNoncurrent Carrying amount of derivative and warrant liability. ReferencesNo definition available. Details Name: zvrz_DerivativeAndWarrantLiabilityNoncurrent Namespace Prefix: zvrz_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX- DefinitionCurrent portion of discount and rebate liabilities. ReferencesNo definition available. Details Name: zvrz_DiscountAndRebateLiabilitiesCurrent Namespace Prefix: zvrz_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX- DefinitionNoncurrent portion of discount and rebate liabilities. ReferencesNo definition available. Details Name: zvrz_DiscountAndRebateLiabilitiesNoncurrent Namespace Prefix: zvrz_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX- Details Name: us-gaap_StatementClassOfStockAxis = zvrz_UndesignatedPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: Consolidated Balance Sheets (Parentheticals)- S / shares Dec. 31, 2024Preferred stock, shares authorized (in shares) 10,000,000 10,000,000Preferred stock, shares issued (in shares) Preferred stock, shares outstanding (in shares) Common stock, par value (in dollars per share) \$ 0.0001 \$ 0.0001Common stock, shares authorized (in shares) 250,000,000 250,000,000Common stock, shares issued (in shares) 55,246,401 43,110,360Common stock, shares outstanding (in shares) 53,670,709 41,534,668Undesignated Preferred Stock [Member] Preferred stock, par value (in dollars per share) \$ 0.0001 \$ 0.0001Preferred stock, shares authorized (in shares) 10,000,000 10,000,000Preferred stock, shares issued (in shares) Preferred stock, shares outstanding (in shares) X-DefinitionFace amount or stated value per share of common stock. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instantX- DefinitionThe maximum number of common shares permitted to be issued by an entity's charter and bylaws. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-04 \(16\) \(a\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-04 (16) (a))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1)Details Name: us-gaap_CommonStockSharesAuthorized Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: instantX- DefinitionTotal number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Details Name: us-gaap_CommonStockSharesIssued Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: instantX- DefinitionNumber of shares of common stock outstanding. Common stock represent the ownership interest in a corporation. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-SubTopic 10-Topic 505-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 6-05 \(4\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 6-05 (4))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2)Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(4\) \(b\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (4) (b))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-04 \(16\) \(a\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-04 (16) (a))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1)Reference 6: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(7\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (7))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3)Details Name: us-gaap_CommonStockSharesOutstanding Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: instantX- DefinitionFace amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(28\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (28))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic>

10- Name Accounting Standards Codification- Section 50- Paragraph 13- Subparagraph (a)- Publisher FASB- URI <https://asc.fasb.org/1943274/2147481112/505-10-50-13> Details Name: us- gaap_PreferredStockParOrStatedValuePerShare Namespace Prefix: us- gaap_ Data Type: dtr- types: perShareItemType Balance Type: na Period Type: instantX- DefinitionThe maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210,5-02\(28\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210,5-02(28))) Publisher FASB- URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210,6-04\(16\)\(a\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210,6-04(16)(a))) Publisher FASB- URI <https://asc.fasb.org/1943274/2147479170/946-210-S99-1> Details Name: us- gaap_PreferredStockSharesAuthorized Namespace Prefix: us- gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: instantX- DefinitionNumber of shares issued for nonredeemable preferred shares and preferred shares redeemable solely at option of issuer. Includes, but is not limited to, preferred shares issued, repurchased, and held as treasury shares. Excludes preferred shares classified as debt. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210,5-02\(28\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210,5-02(28))) Publisher FASB- URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210,6-05\(4\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210,6-05(4))) Publisher FASB- URI <https://asc.fasb.org/1943274/2147479170/946-210-S99-2> Reference 3: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210,6-09\(4\)\(b\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210,6-09(4)(b))) Publisher FASB- URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3> Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210,6-04\(16\)\(a\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210,6-04(16)(a))) Publisher FASB- URI <https://asc.fasb.org/1943274/2147479170/946-210-S99-1> Reference 5: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210,6-09\(7\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210,6-09(7))) Publisher FASB- URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3> Details Name: us- gaap_PreferredStockSharesOutstanding Namespace Prefix: us- gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: instantX- Details Name: us- gaap_ StatementClassOfStockAxis = zvrz UndesignatedPreferredStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: Consolidated Statements of Operations- USD (\$) \$ in Thousands 12 Months EndedDec. 31, 2024 Dec. 31, 2023Revenue, net \$ 23, 612 \$ 27, 461Cost of product revenue (excluding \$ 6, 235 and \$ 772 in intangible asset amortization for the years ended December 31, 2024, and 2023, respectively, shown separately below) 7, 417 2, 173Intangible asset amortization 6, 235Operating expenses: Research and development 42, 095 39, 806Selling, general and administrative 54, 868 34, 314Total operating expenses 96, 963 74, 120Loss from operations (87, 003) (49, 604) Other (expense) income: Interest expense (7, 351) (1, 501) Fair value adjustment related to warrant and CVR liability 2, 057 (98) Fair value adjustment related to investments (18) Interest and other income, net 2, 175 4, 541Total other (expense) income (3, 137) 3, 555Loss before income taxes (90, 140) (46, 049) Income tax expense (15, 371) Net loss \$ (105, 511) \$ (46, 049) Basic and diluted net loss per share of common stock: Net loss (in dollars per share) \$ (2. 28) \$ (1. 3) Weighted average number of shares of common stock outstanding: Basic and diluted (in shares) 46, 251, 239 35, 452, 460X- DefinitionCost of product sold and service rendered, excluding depreciation, depletion, and amortization. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210,5-03\(2\)\(a\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210,5-03(2)(a))) Publisher FASB- URI <https://asc.fasb.org/1943274/2147483621/220-10-S99-2> Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210,5-03\(2\)\(d\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210,5-03(2)(d))) Publisher FASB- URI <https://asc.fasb.org/1943274/2147483621/220-10-S99-2> Details Name: us- gaap_CostOfGoodsAndServiceExcludingDepreciationDepletionAndAmortization Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of expense for allocation of cost of intangible asset over its useful life directly used in production of good and rendering of service. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210,5-03\(2\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210,5-03(2))) Publisher FASB- URI <https://asc.fasb.org/1943274/2147483621/220-10-S99-2> Details Name: us- gaap_CostOfGoodsAndServiceSoldAmortization Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionTotal costs of sales and operating expenses for the period. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210,5-03\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210,5-03)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2) Details Name: us- gaap_CostsAndExpenses Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph6-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-6> Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph52-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482635/260-10-55-52> Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic805-SubTopic60-NameAccountingStandardsCodification-Section65-Paragraph1-Subparagraph\(g\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147476176/805-60-65-1](http://www.xbrl.org/2003/role/disclosureRef-Topic805-SubTopic60-NameAccountingStandardsCodification-Section65-Paragraph1-Subparagraph(g)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147476176/805-60-65-1) Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic323-NameAccountingStandardsCodification-Section65-Paragraph2-Subparagraph\(g\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478666/740-323-65-2](http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic323-NameAccountingStandardsCodification-Section65-Paragraph2-Subparagraph(g)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478666/740-323-65-2) Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-3> Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph15-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482635/260-10-55-15> Reference 7: 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[http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph11-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph11-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-11) Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph11-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph11-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-11) Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph7-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-7](http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph7-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-7) Reference 12: <http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482689/260-10-45-2> Reference 13: 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[http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210,5-03\(25\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2](http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210,5-03(25))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2) Reference 18: [http://www.xbrl.org/2003/role/disclosureRef-Topic942-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210,9-04\(27\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478524/942-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic942-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210,9-04(27))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478524/942-220-S99-1) Reference 19: [http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210,7-04\(23\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477250/944-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210,7-04(23))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477250/944-220-S99-1) Reference 20: <http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph7-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482689/260-10-45-7> Details Name: us- gaap_EarningsPerShareBasic Namespace Prefix: us- gaap_ Data Type: dtr- types: perShareItemType Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us- gaap_EarningsPerShareBasicAbstract Namespace Prefix: us- gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionAmount of income (loss) from continuing operations, including income (loss) from equity method investments, before deduction of income tax expense (benefit), and income (loss) attributable to noncontrolling interest. ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22> Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph48-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482785/280-10-55-48> Reference 3: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32> Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph30-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-30](http://www.xbrl.org/2009/role/commonPracticeRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph30-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-30) Reference 5: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic270-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(i\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/270-10-50-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic270-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(i)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/270-10-50-1)

<http://www.fsb.org/1943274/2147482964/270-10-50-1Reference:6:> [http://www.xbrl.org/2009/role/commonPracticeRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph\(ee\)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482810/280-10-50-32Reference7:](http://www.xbrl.org/2009/role/commonPracticeRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph(ee)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482810/280-10-50-32Reference7:) [http://www.fsb.org/us-gaap/role/ref/otherTransitionRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482810/280-10-50-32Reference8:](http://www.fsb.org/us-gaap/role/ref/otherTransitionRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph(c)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482810/280-10-50-32Reference8:) [http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph\(SX210.7-04\(11\)\)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147477250/944-220-599-1Reference9:](http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph(SX210.7-04(11))-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147477250/944-220-599-1Reference9:) <http://www.xbrl.org/2003/role/exampleRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph31-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482810/280-10-50-31Reference10:> [http://www.xbrl.org/2003/role/disclosureRef-Topic942-SubTopic235-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph\(SX210.9-05\(2\)\)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147477314/942-235-599-1Reference11:](http://www.xbrl.org/2003/role/disclosureRef-Topic942-SubTopic235-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph(SX210.9-05(2))-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147477314/942-235-599-1Reference11:) [http://www.fsb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section599-Paragraph2-Subparagraph\(SX210.5-03\(10\)\)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147483621/220-10-599-2Reference12:](http://www.fsb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section599-Paragraph2-Subparagraph(SX210.5-03(10))-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147483621/220-10-599-2Reference12:) [http://www.fsb.org/us-gaap/role/ref/legacyRef-Topic942-SubTopic220-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph\(SX210.9-04\(15\)\)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147478524/942-220-599-1DetailsName:us-gaap_IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterestNamespacePrefix:us-gaap_DataType:xbrli:monetaryItemTypeBalanceType:creditPeriodType:durationX-DefinitionAmountofcurrentincome tax expense \(benefit\) and deferred income tax expense \(benefit\) pertaining to continuing operations. ReferencesReference1:](http://www.fsb.org/us-gaap/role/ref/legacyRef-Topic942-SubTopic220-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph(SX210.9-04(15))-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147478524/942-220-599-1DetailsName:us-gaap_IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterestNamespacePrefix:us-gaap_DataType:xbrli:monetaryItemTypeBalanceType:creditPeriodType:durationX-DefinitionAmountofcurrentincome tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations. ReferencesReference1:) [http://www.xbrl.org/2003/role/disclosureRef-Topic270-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(i\)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482964/270-10-50-1Reference2:](http://www.xbrl.org/2003/role/disclosureRef-Topic270-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(i)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482964/270-10-50-1Reference2:) [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph\(ee\)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482810/280-10-50-32Reference3:](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph(ee)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482810/280-10-50-32Reference3:) <http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph12-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482685/740-10-50-12Reference4:> <http://www.xbrl.org/2003/role/exampleRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph231-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482663/740-10-55-231Reference5:> <http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147483443/250-10-50-9Reference6:> [http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph\(SABTopic6.I.7\)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147479360/740-10-599-1Reference7:](http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph(SABTopic6.I.7)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147479360/740-10-599-1Reference7:) <http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph8-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147483443/250-10-50-8Reference8:> <http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph10-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482685/740-10-50-10Reference9:> [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph\(h\)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482810/280-10-50-22Reference10:](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph(h)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482810/280-10-50-22Reference10:) [http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph\(SX210.7-04\(9\)\)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147477250/944-220-599-1Reference11:](http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph(SX210.7-04(9))-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147477250/944-220-599-1Reference11:) [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph2-Subparagraph\(a\)-SubTopic20-Topic740-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482659/740-20-45-2Reference12:](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph2-Subparagraph(a)-SubTopic20-Topic740-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147482659/740-20-45-2Reference12:) [http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandards](http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph(SX210.4-08(h))-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147480678/235-10-599-1DetailsName:us-gaap_IncomeTaxExpenseBenefitNamespacePrefix:us-gaap_DataType:xbrli:monetaryItemTypeBalanceType:debitPeriodType:durationX-DefinitionAmountof interest expense classified as nonoperating. ReferencesReference1:)

1BReference 31:

www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482686/350-30-45-2 Details Name: us-gaap_AmortizationOfIntangibleAssets Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationConsolidated Statements of Comprehensive Loss-USD (\$) \$ in Thousands 12 Months Ended Dec. 31, 2024 Dec. 31, 2023 Net loss \$ (105, 511) \$ (46, 049) Other comprehensive income (loss): Foreign currency translation adjustment (156) Other comprehensive income (loss) (156) Comprehensive loss \$ (104, 837) \$ (46, 205) X-DefinitionAmount after tax of increase (decrease) in equity from transactions and other events and circumstances from net income and other comprehensive income, attributable to parent entity. Excludes changes in equity resulting from investments by owners and distributions to owners. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210.5-03\(24\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2](http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210.5-03(24))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic942-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.9-04\(26\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/214748524/942-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic942-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.9-04(26))-PublisherFASB-URIhttps://asc.fasb.org/1943274/214748524/942-220-S99-1)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.7-04\(22\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477250/944-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.7-04(22))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477250/944-220-S99-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph1A-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph1A-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-1A)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph1B-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph1B-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-1B)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.7-04\(20\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477250/944-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.7-04(20))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477250/944-220-S99-1)Reference 7: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic220-SubTopic10-Section45-Paragraph5-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-5> Details Name: us-gaap_ComprehensiveIncomeNetOfTax Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionAmount, after deduction of tax, noncontrolling interests, dividends on preferred stock and participating securities; of income (loss) available to common shareholders. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic805-SubTopic60-NameAccountingStandardsCodification-Section65-Paragraph1-Subparagraph\(g\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/805-60-65-1](http://www.xbrl.org/2003/role/disclosureRef-Topic805-SubTopic60-NameAccountingStandardsCodification-Section65-Paragraph1-Subparagraph(g)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/805-60-65-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-3>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph11-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph11-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-11)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph11-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph11-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-11)Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph4-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-4>Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph5-Subparagraph\(SABTopic6.B\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-5](http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph5-Subparagraph(SABTopic6.B)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-5)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-1)Reference 8: <http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph10-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482689/260-10-45-10>Reference 9: <http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph11-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482689/260-10-45-11>Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph60B-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482689/260-10-45-60B](http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph60B-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482689/260-10-45-60B) Details Name: us-gaap_NetIncomeLossAvailableToCommonStockholdersBasic Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionAmount after tax, before reclassification adjustments of gain (loss) on foreign currency translation adjustments, foreign currency transactions designated and effective as economic hedges of a net investment in a foreign entity and intra-entity foreign currency transactions that are of a long-term investment nature. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph10A-Subparagraph\(a\)-SubTopic10-Topic220-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-10A](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph10A-Subparagraph(a)-SubTopic10-Topic220-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-10A)Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph11-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-11>Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph10A-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-10A](http://fasb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph10A-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-10A)Reference 4: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph10A-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-10A](http://fasb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph10A-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-10A)Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic830-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481839/830-10-45-9>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic830-SubTopic20-NameAccountingStandardsCodification-Section35-Paragraph3-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482014/830-20-35-3>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef-Topic830-SubTopic30-NameAccountingStandardsCodification-Section45-Paragraph12-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481694/830-30-45-12> Details Name: us-gaap_OtherComprehensiveIncomeForeignCurrencyTransactionAndTranslationGainLossArisingDuringPeriodNetOfTax Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionAmount after tax of other comprehensive income (loss) attributable to parent entity. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic810-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph19-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481231/810-10-45-19>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph20-SubTopic10-Topic810-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481231/810-10-45-20>Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph1A-Subparagraph\(c\)\(3\)-SubTopic10-Topic810-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481203/810-10-50-1A](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph1A-Subparagraph(c)(3)-SubTopic10-Topic810-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481203/810-10-50-1A)Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph6-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-6>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph1B-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph1B-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-1B)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph1A-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph1A-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482790/220-10-45-1A) Details Name: us-gaap_OtherComprehensiveIncomeLossNetOfTaxPortionAttributableToParent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-ReferencesNo definition available. Details Name: us-gaap_OtherComprehensiveIncomeLossNetOfTaxPortionAttributableToParentAbstract Namespace Prefix: us-gaap_Data Type: xbrli:stringItemType Balance Type: na Period Type: durationConsolidated Statements of Changes in Stockholders' Equity-USD (\$) \$ in Thousands Public Offering [Member] Common Stock [Member] Public Offering [Member] Additional Paid-in Capital [Member] Public Offering [Member] Treasury Stock, Common [Member] Public Offering [Member] Retained Earnings [Member] Public Offering [Member] AOCI Attributable to Parent [Member] Public Offering [Member] Common Stock [Member] Additional Paid-in Capital [Member] Treasury Stock, Common [Member] Retained Earnings [Member] AOCI Attributable to Parent [Member] TotalBalance at Dec. 31, 2022 \$ 3 \$ 436, 269 \$ (7, 536) \$ (353, 729) \$ 113 \$ 75, 120Segment net loss (46, 049) (46, 049) Stock-based compensation expense 5, 954 5, 954Issuance of common stock in connection with the Merger 28, 390 28, 391Issuance of common stock 6, 106 6, 106Issuance of warrants (4, 500) (4, 500) Shares repurchased as part of the Share Repurchase Program (3, 447) (3, 447) Issuance of common stock as part of the Employee Stock Purchase Plan Issuance of common stock in exchange for consulting services Other comprehensive income (156) (156) Balance at Dec. 31, 2023 472, 664 (10, 983) (399, 778) (43) 61, 864Segment net loss (105, 511) (105, 511) Stock-based compensation expense 14, 906 14, 906Issuance of common stock \$ 1 \$ 64, 516 \$ 0 \$ 0 \$ 64, 517 Issuance of common stock as part of the Employee Stock Purchase Plan 1, 058 1, 058Issuance of common stock in exchange for consulting services Other comprehensive income Issuance of common stock for options exercised 1, 684 1, 684Balance at Dec. 31, 2024 \$ 5 \$ 555, 302 \$ (10, 983) \$ (505, 289) \$ 631 \$ 39, 666X-DefinitionAmount of increase to additional paid-in capital (APIC) for recognition of cost for award under share-based payment arrangement. 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Includes allocation of proceeds of debt securities issued with detachable stock purchase warrants. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-SubTopic10-Topic505-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.3-04\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.3-04)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1)Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic470-SubTopic20-Section25-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481284/470-20-25-2> Details Name: us-gaap_AdjustmentsToAdditionalPaidInCapitalWarrantIssued Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the

parent. 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https://asc.fasb.org/1943274/2147482740/230-10-45-28>Reference 35: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1A-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1A-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1)Reference 36: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1B-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1B-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1)Reference 37: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 220-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph \(SX 210. 9-04 \(22\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478524/942-220-599-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 220-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph (SX 210. 9-04 (22))-Publisher FASB-URI https://asc.fasb.org/1943274/2147478524/942-220-599-1)Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionAmount after tax of other comprehensive income (loss) attributable to parent entity. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 19-Publisher FASB-URI https://asc.fasb.org/1943274/2147481231/810-10-45-19>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 20-SubTopic 10-Topic 810-Publisher FASB-URI https://asc.fasb.org/1943274/2147481231/810-10-45-20>Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1A-Subparagraph \(c\) \(3\)-SubTopic 10-Topic 810-Publisher FASB-URI https://asc.fasb.org/1943274/2147481203/810-10-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 810-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1A-Subparagraph (c) (3)-SubTopic 10-Topic 810-Publisher FASB-URI https://asc.fasb.org/1943274/2147481203/810-10-50-1)Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-6>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1B-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1B-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1A-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1A-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1)Details Name: us-gaap_OtherComprehensiveIncomeLossNetOfTaxPortionAttributableToParent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionValue of stock issued pursuant to acquisitions during the period. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Topic 505-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph (SX 210. 5-02 (29))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-599-1)Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph \(SX 210. 5-02 \(30\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph (SX 210. 5-02 (30))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-599-1)Reference 4: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph \(SX 210. 5-02 \(31\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph (SX 210. 5-02 (31))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-599-1)Reference 5: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph \(SX 210. 3-04\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480008/505-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph (SX 210. 3-04)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480008/505-10-599-1)Details Name: us-gaap_StockIssuedDuringPeriodValueAcquisitions Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionAggregate change in value for stock issued during the period as a result of employee stock purchase plan. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Topic 505-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-2>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph \(SX 210. 5-02 \(28\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph (SX 210. 5-02 (28))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-599-1)Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph (SX 210. 5-02 (29))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-599-1)Reference 4: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-599-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 599-Paragraph 1-Subparagraph (SX 210. 5-02 (29))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-599-1)

10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph (SX 210. 3- 04)- Publisher FASB- URI <https://asc.fasb.org/1943274/2147480008/505-10-S99-1> Details Name: us- gaap_ StockIssuedDuringPeriodValueEmployeeStockPurchasePlan Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionValue of stock issued in lieu of cash for services contributed to the entity. Value of the stock issued includes, but is not limited to, services contributed by vendors and founders. ReferencesNo definition available. Details Name: us- gaap_ StockIssuedDuringPeriodValueIssuedForServices Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionEquity impact of the value of new stock issued during the period. Includes shares issued in an initial public offering or a secondary public offering. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-SubTopic10-Topic505-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-2> Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(28\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(28))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(29\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(29))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 4: <http://www.xbrl.org/2003/role/exampleRef-Topic946-SubTopic830-NameAccountingStandardsCodification-Section55-Paragraph11-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479168/946-830-55-11> Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic205-NameAccountingStandardsCodification-Section45-Paragraph4-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478009/946-205-45-4](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic205-NameAccountingStandardsCodification-Section45-Paragraph4-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478009/946-205-45-4) Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic505-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478448/946-505-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic505-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478448/946-505-50-2) Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.6-09\(4\)\(b\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.6-09(4)(b))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479134/946-220-S99-3) Reference 8: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.3-04\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.3-04)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1) Details Name: us- gaap_ StockIssuedDuringPeriodValueNewIssues Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionValue of stock issued as a result of the exercise of stock options. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-SubTopic10-Topic505-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-2> Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(29\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(29))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(30\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(30))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 4: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(31\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(31))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 5: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.3-04\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.3-04)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1) Details Name: us- gaap_ StockIssuedDuringPeriodValueStockOptionsExercised Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(29\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(29))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(30\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(30))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 3: 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[http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.6-04\(19\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479170/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.6-04(19))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479170/946-210-S99-1) Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.6-05\(4\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479170/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.6-05(4))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479170/946-210-S99-1) Reference 8: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.6-09\(4\)\(b\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.6-09(4)(b))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479134/946-220-S99-3) Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.6-09\(6\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.6-09(6))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479134/946-220-S99-3) Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.6-09\(7\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.6-09(7))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479134/946-220-S99-3) Reference 11: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic235-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.4-08\(g\)\(1\)\(ii\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic235-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.4-08(g)(1)(ii))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480678/235-10-S99-1) Reference 12: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic323-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481687/323-10-50-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic323-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481687/323-10-50-3) Reference 13: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic825-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph28-Subparagraph\(f\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482907/825-10-50-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic825-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph28-Subparagraph(f)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482907/825-10-50-28) Reference 14: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic310-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SABTopic4.E\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480418/310-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic310-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SABTopic4.E)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480418/310-10-S99-2) Details Name: us- gaap_ StockholdersEquity Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionEquity impact of the cost of common and preferred stock that were repurchased during the period. Recorded using the cost method. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-SubTopic10-Topic505-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-2> Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.3-04\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.3-04)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1) Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic505-SubTopic30-Section45-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481549/505-30-45-1> Details Name: us- gaap_ TreasuryStockValueAcquiredCostMethod Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationConsolidated Statements of Cash Flows- USD (\$) \$ in Thousands 12 Months EndedDec. 31, 2024 Dec. 31, 2023Cash flows from operating activities: Net loss \$ (105, 511) \$ (46, 049) Adjustments to reconcile net loss to net cash used in operating activities: Stock-based compensation expense 14, 906 5, 954Income tax expense 15, 374Depreciation and amortization expense 6, 389 1, 006Inventory obsolescence 5, 746Non- cash interest expense 2, 089Fair value adjustment related to derivative and warrant liability and CVR liability (2, 057) Amortization (accretion) on investments (890) Fair value adjustment related to investments (613) Loss on sublease and disposal of property and equipmentConsulting fees paid in common stockGain on foreign currency exchange rates (198) Change in assets and liabilities: Accounts and other receivables 6, 868 (9, 078) Prepaid expenses and other current assets (2, 228) Inventories (8, 874) Operating lease right- of- use assetsOther long- term assets (5) Accounts payable and accrued expenses (3, 598) 11, 130Discount and rebate liabilities 3, 231Operating lease liabilities (626) (439) Other liabilitiesNet cash used in operating activities (69, 665) (33, 535) Cash flows from investing activities: Acquisitions, net (30, 401) Purchases of property and equipment (296) Payment of royalty to XOMA (6, 000) Purchases of investments (41, 161) (45, 814) Maturities of investments 25, 000 59, 121Net cash used in investing activities (22, 161) (17, 390) Cash flows from financing activities: Proceeds from issuance of debt 58, 990 42, 431Proceeds from insurance financing arrangements 1, 082 1, 256Proceeds from Employee Stock Purchase Plan 1, 058Proceeds from stock issuance 64, 516 6, 106Proceeds from issuance of common stock for options exercised 1, 684Payments of principal on insurance financing arrangements (431) (564) Repayment of debt (42, 700) (17, 531) Payment to repurchase shares as part of the Share Repurchase Program (3, 447) Payment of deferred financing costs (2, 091) Repayment of principal on finance lease liabilities (5) Net cash provided by financing activities 82, 108 28, 464Effect of exchange rate changes on cash and cash equivalentsNet decrease in cash and cash equivalents (9, 264) (22, 417) Cash and cash equivalents, beginning of period 43, 049 65, 466Cash and cash equivalents, end of period 33, 785 43, 049Supplemental cash flow information: Cash paid for interest 5, 262Right- of- use assets obtained in exchange for lease liabilitiesSupplemental disclosure of noncash investing activities: Issuance of common stock in connection with the Merger (Note T) (28, 390) Issuance of secured promissory note for the Merger (Note T) (5, 066) Issuance of contingent value rights for the Merger (Note T) \$ 0 \$ (8, 562) X- DefinitionThe sum of the periodic adjustments of the differences between securities' face values and purchase prices that are charged against earnings. This is called accretion if the security was purchased at a discount and amortization if it was purchased at premium. As a noncash item, this element is an adjustment to net income when calculating cash provided by or used in operations using the indirect method. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph28-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28> Details Name: us- gaap_ AccretionAmortizationOfDiscountsAndPremiumsInvestments Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- ReferencesNo definition available. Details Name: us- gaap_ AdjustmentsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us- gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including, but not limited to, disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short- term, highly liquid investments

that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph8-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482913/230-10-50-8>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph24-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-24>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section45-Paragraph4-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-4> Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsIncludingDisposalGroupAndDiscontinuedOperations Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph24-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-24>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph1-SubTopic230-Topic830-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477401/830-230-45-1> Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe aggregate expense recognized in the current period that allocates the cost of tangible assets, intangible assets, or depleting assets to periods that benefit from use of the assets. ReferencesReference 1: [http://www.xbrl.org/2003/role/exampleRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph48-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482785/280-10-55-48](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(b)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic270-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(i\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482964/270-10-50-1](http://www.xbrl.org/2003/role/exampleRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph49-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482785/280-10-55-49)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph\(e\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph(ee)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32) Details Name: us-gaap_DepreciationDepletionAndAmortization Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of increase (decrease) from effect of exchange rate changes on cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; held in foreign currencies; including, but not limited to, disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic830-SubTopic230-NameAccountingStandardsCodification-Section45-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477401/830-230-45-1> Details Name: us-gaap_EffectOfExchangeRateOnCashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsIncludingDisposalGroupAndDiscontinuedOperations Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of cash outflow for principal payment on finance lease. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic842-SubTopic20-NameAccountingStandardsCodification-Section45-Paragraph5-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479041/842-20-45-5](http://www.xbrl.org/2003/role/disclosureRef-Topic842-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph4-Subparagraph(g)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478964/842-20-50-4) Details Name: us-gaap_FinanceLeasePrincipalPayments Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionAmount, before tax, of realized and unrealized gain (loss) from foreign currency transaction. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic830-SubTopic20-NameAccountingStandardsCodification-Section35-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482014/830-20-35-1](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.6-07(7))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479134/946-220-S99-1)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic830-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481926/830-20-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic830-SubTopic20-NameAccountingStandardsCodification-Section45-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481956/830-20-45-1)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic830-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph\(a\)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28](http://www.xbrl.org/2003/role/disclosureRef-Topic830-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph17-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481839/830-10-45-17) Details Name: us-gaap_IncreaseDecreaseInAccountsAndOtherReceivables Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionThe increase (decrease) during the reporting period in the amount due from customers for the credit sale of goods and services; includes accounts receivable and other types of receivables. ReferencesReference 1: [http://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(a)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-gaap_IncreaseDecreaseInAccountsAndOtherReceivables Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionThe increase (decrease) during the reporting period in the amounts payable to vendors for goods and services received and the amount of obligations and expenses incurred but not paid. ReferencesReference 1: [http://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(a)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-gaap_IncreaseDecreaseInAccountsPayableAndAccruedLiabilities Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe increase (decrease) during the reporting period in the aggregate value of all inventory held by the reporting entity, associated with underlying transactions that are classified as operating activities. ReferencesReference 1: [http://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(a)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-gaap_IncreaseDecreaseInInventories Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- ReferencesNo definition available. Details Name: us-gaap_IncreaseDecreaseInOperatingCapitalAbstract Namespace Prefix: us-gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionAmount of increase (decrease) in obligation for operating lease. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-NameAccountingStandardsCodification-Section50-Paragraph4-Subparagraph\(g\)\(1\)-SubTopic20-Topic842-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478964/842-20-50-4](http://www.xbrl.org/2009/role/commonPracticeRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-gaap_IncreaseDecreaseInOperatingLeaseLiability Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of increase (decrease) in noncurrent assets classified as other. ReferencesReference 1: [http://asc.fasb.org/1943274/2147482740/230-10-45-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-gaap_IncreaseDecreaseInOtherNoncurrentAssets Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionAmount of increase (decrease) in noncurrent operating liabilities classified as other. ReferencesNo definition available. Details Name: us-gaap_IncreaseDecreaseInOtherNoncurrentLiabilities Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of increase (decrease) in prepaid expenses, and assets classified as other. ReferencesReference 1: [http://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(a)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-gaap_IncreaseDecreaseInPrepaidDeferredExpenseAndOtherAssets Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionAmount of cash paid for interest, excluding capitalized interest, classified as operating activity. Includes, but is not limited to, payment to settle zero-coupon bond for accreted interest of debt discount and debt instrument with insignificant coupon interest rate in relation to effective interest rate of borrowing attributable to accreted interest of debt discount. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph17-Subparagraph\(d\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-17](http://www.xbrl.org/2003/role/disclosureRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph17-Subparagraph(d)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-17)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482913/230-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph25-Subparagraph(e)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-25) Details Name: us-gaap_InterestPaidNet Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionAmount of loss from reductions in inventory due to subsequent measurement adjustments, including, but not limited to, physical deterioration, obsolescence, or changes in price levels. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic330-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483080/330-10-50-2> Details Name: us-gaap_InventoryWriteDown Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of cash

inflow (outflow) from financing activities, including discontinued operations. Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph24-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-24DetailsName:us-gaap_NetCashProvidedByUsedInFinancingActivitiesNamespacePrefix:us-gaap_DataType:xbrli:monetaryItemTypeBalanceType:debitPeriodType:durationX-ReferencesNo definition available.DetailsName:us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstractNamespacePrefix:us-gaap_DataType:xbrli:stringItemTypeBalanceType:naPeriodType:durationX-DefinitionAmount of cash inflow \(outflow\) from investing activities, including discontinued operations.](http://www.xbrl.org/2003/role/disclosureRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph24-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-24DetailsName:us-gaap_NetCashProvidedByUsedInFinancingActivitiesNamespacePrefix:us-gaap_DataType:xbrli:monetaryItemTypeBalanceType:debitPeriodType:durationX-ReferencesNo definition available.DetailsName:us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstractNamespacePrefix:us-gaap_DataType:xbrli:stringItemTypeBalanceType:naPeriodType:durationX-DefinitionAmount of cash inflow (outflow) from investing activities, including discontinued operations.)

Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph24-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-24DetailsName:us-gaap_NetCashProvidedByUsedInInvestingActivitiesNamespacePrefix:us-gaap_DataType:xbrli:monetaryItemTypeBalanceType:debitPeriodType:durationX-ReferencesNo definition available.DetailsName:us-gaap_NetCashProvidedByUsedInInvestingActivitiesAbstractNamespacePrefix:us-gaap_DataType:xbrli:stringItemTypeBalanceType:naPeriodType:durationX-DefinitionAmount of cash inflow \(outflow\) from operating activities, including discontinued operations.](http://www.xbrl.org/2003/role/disclosureRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph24-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-24DetailsName:us-gaap_NetCashProvidedByUsedInInvestingActivitiesNamespacePrefix:us-gaap_DataType:xbrli:monetaryItemTypeBalanceType:debitPeriodType:durationX-ReferencesNo definition available.DetailsName:us-gaap_NetCashProvidedByUsedInInvestingActivitiesAbstractNamespacePrefix:us-gaap_DataType:xbrli:stringItemTypeBalanceType:naPeriodType:durationX-DefinitionAmount of cash inflow (outflow) from operating activities, including discontinued operations.)

Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities. ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph28-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28Reference2:https://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph24-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-24Reference3:https://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph25-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-25DetailsName:us-gaap_NetCashProvidedByUsedInOperatingActivitiesNamespacePrefix:us-gaap_DataType:xbrli:monetaryItemTypeBalanceType:naPeriodType:durationX-ReferencesNo definition available.DetailsName:us-gaap_NetCashProvidedByUsedInOperatingActivitiesAbstractNamespacePrefix:us-gaap_DataType:xbrli:stringItemTypeBalanceType:naPeriodType:durationX-DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent.

ReferencesReference 1:

<https://asc.fasb.org/1943274/2147482913/230-10-50-5> Details Name: us-gaap_NotesIssued1 Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionInterest paid other than in cash for example by issuing additional debt securities. As a noncash item, it is added to net income when calculating cash provided by or used in operations using the indirect method. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-SubParagraph\(b\)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-SubParagraph(b)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-gaap_PaidInKindInterest Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe cash outflow to reacquire common stock during the period. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph15-SubParagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-15](http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph15-SubParagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-15) Details Name: us-gaap_PaymentsForRepurchaseOfCommonStock Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionThe cash outflow for loan and debt issuance costs. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section45-Paragraph15-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-15> Details Name: us-gaap_PaymentsOffinancingCosts Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionThe cash outflow associated with the acquisition of a business, net of the cash acquired from the purchase. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section45-Paragraph13-SubParagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-13](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section45-Paragraph13-SubParagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-13) Details Name: us-gaap_PaymentsToAcquireBusinessesNetOfCashAcquired Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionThe cash outflow to acquire asset without physical form usually arising from contractual or other legal rights, excluding goodwill. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph13-SubParagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-13](http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph13-SubParagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-13) Details Name: us-gaap_PaymentsToAcquireIntangibleAssets Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionAmount of cash outflow to acquire investments classified as other. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph13-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-13> Details Name: us-gaap_PaymentsToAcquireOtherInvestments Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionThe cash outflow associated with the acquisition of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale; includes cash outflows to pay for construction of self-constructed assets. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph13-SubParagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-13](http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph13-SubParagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-13) Details Name: us-gaap_PaymentsToAcquirePropertyPlantAndEquipment Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionThe cash inflow from the additional capital contribution to the entity. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph14-SubParagraph\(a\)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-14](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph14-SubParagraph(a)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-14) Details Name: us-gaap_ProceedsFromIssuanceOfCommonStock Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe cash inflow during the period from additional borrowings in aggregate debt. Includes proceeds from short-term and long-term debt. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph14-SubParagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-14](http://www.xbrl.org/2009/role/commonPracticeRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph14-SubParagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-14) Details Name: us-gaap_ProceedsFromIssuanceOfDebt Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe cash inflow associated with the sale, maturity and collection of all investments such as debt, security and so forth during the period. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section45-Paragraph12-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-12> Details Name: us-gaap_ProceedsFromSaleMaturityAndCollectionsOfInvestments Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of cash inflow from exercise of option under share-based payment arrangement. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph14-SubParagraph\(a\)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-14](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph14-SubParagraph(a)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-14) Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2A-SubParagraph\(a\)-SubTopic10-Topic718-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2A](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2A-SubParagraph(a)-SubTopic10-Topic718-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2A) Details Name: us-gaap_ProceedsFromStockOptionsExercised Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe cash inflow associated with the amount received from the stock plan during the period. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph14-SubParagraph\(a\)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-14](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph14-SubParagraph(a)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-14) Details Name: us-gaap_ProceedsFromStockPlans Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of cash outflow for short-term and long-term debt. Excludes payment of lease obligation. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph15-SubParagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-15](http://www.xbrl.org/2009/role/commonPracticeRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph15-SubParagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-15) Details Name: us-gaap_RepaymentsOfDebt Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionAmount of increase in right-of-use asset obtained in exchange for finance lease liability. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic842-SubTopic20-NameAccountingStandardsCodification-Section55-Paragraph53-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479589/842-20-55-53> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic842-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph4-SubParagraph\(g\)\(2\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478964/842-20-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic842-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph4-SubParagraph(g)(2)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478964/842-20-50-4) Details Name: us-gaap_RightOfUseAssetObtainedInExchangeForFinanceLeaseLiability Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of noncash expense for share-based payment arrangement. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-SubParagraph\(a\)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-SubParagraph(a)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-gaap_ShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe fair value of stock issued in noncash financing activities. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section50-Paragraph4-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482913/230-10-50-4> Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section50-Paragraph3-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482913/230-10-50-3> Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section50-Paragraph5-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482913/230-10-50-5> Details Name: us-gaap_StockIssued1 Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionNo definition available. Details Name: us-gaap_SupplementalCashFlowInformationAbstract Namespace Prefix: us-gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionThe amount of consulting fees are paid in stock. ReferencesNo definition available. Details Name: vzra_ConsultingFeesPaidInStock Namespace Prefix: vzra_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe fair value of contingent value rights issued in noncash financing activities. ReferencesNo definition available. Details Name: vzra_ContingentValueRightsIssued Namespace Prefix: vzra_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionAmount of expense (income) related to adjustment to fair value of investments. ReferencesNo definition available. Details Name: vzra_FairValueAdjustmentOfInvestments Namespace Prefix: vzra_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of expense (income) related to adjustment to fair value of warrant liability and CVR Liability ReferencesNo definition available. Details Name: vzra_FairValueAdjustmentOfWarrantsAndCvrLiability Namespace Prefix: vzra_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe amount of noncash adjustment due to income tax expense (benefit). ReferencesNo definition available. Details Name: vzra_IncomeTaxExpenseBenefitNoncashAdjustment Namespace Prefix: vzra_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionIncrease (decrease) in discount and rebate liabilities. ReferencesNo definition available. Details Name: vzra_IncreaseDecreaseInDiscountAndRebateLiabilities Namespace Prefix: vzra_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe amount of increase (decrease) in operating lease right-of-use assets. ReferencesNo definition available. Details Name: vzra_IncreaseDecreaseInOperatingLeaseRightOfUseAsset Namespace Prefix: vzra_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionRepresents the loss on sublease and disposal of property and equipment recognized during the period. ReferencesNo definition available. Details Name: vzra_LossOnSubleaseAndDisposalOfPropertyAndEquipment Namespace Prefix: vzra_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionRepresents payments of principal on insurance financing arrangements. ReferencesNo definition available. Details Name: vzra_PaymentsOfPrincipalOnInsuranceFinancingArrangements Namespace Prefix: vzra_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionRepresents proceeds from insurance financing arrangements. ReferencesNo definition available. Details Name: vzra_ProceedsFromInsuranceFinancingArrangements Namespace Prefix: vzra_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationInsider Trading Arrangements 12 Months Ended Dec. 31, 2024 Insider Trading Arr Line Items Rule 10b5-1 Arrangement Adopted [Flag] falseNon- Rule 10b5-1 Arrangement Adopted [Flag] falseRule 10b5-1 Arrangement Terminated [Flag] falseNon- Rule 10b5-1 Arrangement Terminated [Flag] falseX- ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-PublisherSEC-NameRegulationS-K-Number229-Section408-Subsectiona> Details Name: ecd_InsiderTradingArrLineItems Namespace Prefix: ecd_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-PublisherSEC-NameRegulationS-K-Number229-Section408-Subsectiona-Paragraph1> Details Name: ecd_NonRule10b51ArrAdoptedFlag Namespace Prefix: ecd_ Data Type: xbrli: booleanItemType Balance Type: na Period Type: durationX- ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-PublisherSEC-NameRegulationS-K-Number229-Section408-Subsectiona-Paragraph1> Details Name:

ecd_NonRule10b51ArrTrmtdFlag Namespace Prefix: ecd_ Data Type: xbrli: booleanItemType Balance Type: na Period Type: durationX- ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S- K- Number 229- Section 408- Subsection a- Paragraph 1 Details Name: ecd_Rule10b51ArrAdoptedFlag Namespace Prefix: ecd_ Data Type: xbrli: booleanItemType Balance Type: na Period Type: durationX- ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S- K- Number 229- Section 408- Subsection a- Paragraph 1 Details Name: ecd_Rule10b51ArrTrmtdFlag Namespace Prefix: ecd_ Data Type: xbrli: booleanItemType Balance Type: na Period Type: durationCybersecurity Risk Management and Strategy Disclosure 12 Months Ended Dec. 31, 2024 Cybersecurity Risk Management, Strategy, and Governance | Line Items | Cybersecurity Risk Management Processes for Assessing, Identifying, and Managing Threats | Text Block | ITEM 1C. CYBERSECURITY Cybersecurity Risk Management and Strategy We have developed and implemented a cybersecurity risk management program intended to protect the confidentiality, integrity, and availability of our critical systems and information. We design and assess our program based on the National Institute of Standards and Technology Cybersecurity Framework ("NIST CSF"). This does not imply that we meet any particular technical standards, specifications, or requirements, only that we use the NIST CSF as a guide to help us identify, assess, and manage cybersecurity risks relevant to our business. Our cybersecurity risk management program is integrated into our overall enterprise risk management program, and shares common methodologies, reporting channels and governance processes that apply across the enterprise risk management program to other legal, compliance, strategic, operational, and financial risk areas. Our cybersecurity risk management program is integrated into our overall risk management program, and shares common methodologies, reporting channels and governance processes that apply across the risk management program to other legal, compliance, strategic, operational, and financial risk areas. Key elements of our cybersecurity risk management program include but are not limited to the following: • risk assessments designed to help identify material risks from cybersecurity threats to our critical systems, and information; • a security team principally responsible for managing (1) our cybersecurity risk assessment processes, (2) our security controls, and (3) our response to cybersecurity incidents; • the use of external service providers, where appropriate, to assess, test or otherwise assist with aspects of our security processes; • cybersecurity awareness training of our employees, including incident response personnel, and senior management; • a cybersecurity incident response plan that includes procedures for responding to cybersecurity incidents; and • a third- party risk management process for key service providers, based on our assessment of their criticality to our operations and respective risk profile. For more information, see "If our security measures are compromised now, or in the future, or the security, confidentiality, integrity or availability of, our information technology systems, software, services, communications or data is compromised, limited or fails, this could result in a material adverse impact, including without limitation, a material interruption to our operations, harm to our reputation, significant fines, penalties and liability, breach or a triggering of data protection laws, privacy policies and data protection obligations, loss of customers or sales, or material disruption of our clinical trials or other business activity." in the "Risk Factors" section above. Cybersecurity Risk Management Processes Integrated | Flag | trueCybersecurity Risk Management Processes Integrated | Text Block | Our cybersecurity risk management program is integrated into our overall enterprise risk management program, and shares common methodologies, reporting channels and governance processes that apply across the enterprise risk management program to other legal, compliance, strategic, operational, and financial risk areas. Cybersecurity Risk Management Third Party Engaged | Flag | trueCybersecurity Risk Third Party Oversight and Identification Processes | Flag | trueCybersecurity Risk Materially Affected or Reasonably Likely to Materially Affect Registrant | Flag | falseCybersecurity Risk Materially Affected or Reasonably Likely to Materially Affect Registrant | Text Block | Our cybersecurity risk management program is integrated into our overall risk management program, and shares common methodologies, reporting channels and governance processes that apply across the risk management program to other legal, compliance, strategic, operational, and financial risk areas. Cybersecurity Risk Board of Directors Oversight | Text Block | Cybersecurity Governance Our Board considers cybersecurity risk as part of its risk oversight function and has delegated to the Audit Committee ("Committee") oversight of cybersecurity risks, including oversight of management's implementation of our cybersecurity risk management program. The Committee receives periodic reports from management on our cybersecurity risks. In addition, management updates the Committee, where it deems appropriate, regarding any cybersecurity incidents it considers to be significant or potentially significant. The Committee reports to the full Board regarding its activities, including those related to cybersecurity. The full Board also receives briefings from management on our cyber risk management program. Board members receive presentations on cybersecurity topics from our internal security staff or external experts as part of the Board's continuing education on topics that impact public companies. Our management team, including R. LaDuane Clifton, Chief Financial Officer and Treasurer, is responsible for assessing and managing our material risks from cybersecurity threats. The team has primary responsibility for our overall cybersecurity risk management program and supervises both our internal cybersecurity personnel and our retained external cybersecurity consultants. Our management team includes IT staff such as a Director of IT with more than 21 years of IT- related experience in various roles including managing information security, managing privacy and data protection, evaluating cybersecurity risks, developing cybersecurity strategy, and implementing cybersecurity programs. Our management team takes steps to stay informed about and monitor efforts to prevent, detect, mitigate, and remediate cybersecurity risks and incidents through various means, which may include briefings from internal security personnel; threat intelligence and other information obtained from governmental, public or private sources, including external consultants engaged by us; and alerts and reports produced by security tools deployed in the information technology environment. Cybersecurity Risk Board Committee or Subcommittee Responsible for Oversight | Text Block | Our Board considers cybersecurity risk as part of its risk oversight function and has delegated to the Audit Committee ("Committee") oversight of cybersecurity risks, including oversight of management's implementation of our cybersecurity risk management program. Cybersecurity Risk Process for Informing Board Committee or Subcommittee Responsible for Oversight | Text Block | The Committee receives periodic reports from management on our cybersecurity risks. In addition, management updates the Committee, where it deems appropriate, regarding any cybersecurity incidents it considers to be significant or potentially significant. Cybersecurity Risk Management Positions or Committees Responsible | Flag | trueCybersecurity Risk Management Expertise of Management Responsible | Text Block | The Committee reports to the full Board regarding its activities, including those related to cybersecurity. The full Board also receives briefings from management on our cyber risk management program. Board members receive presentations on cybersecurity topics from our internal security staff or external experts as part of the Board's continuing education on topics that impact public companies. Our management team, including R. LaDuane Clifton, Chief Financial Officer and Treasurer, is responsible for assessing and managing our material risks from cybersecurity threats. The team has primary responsibility for our overall cybersecurity risk management program and supervises both our internal cybersecurity personnel and our retained external cybersecurity consultants. Our management team includes IT staff such as a Director of IT with more than 21 years of IT- related experience in various roles including managing information security, managing privacy and data protection, evaluating cybersecurity risks, developing cybersecurity strategy, and implementing cybersecurity programs. Cybersecurity Risk Management Positions or Committees Responsible Report to Board | Flag | trueX- ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S- K- Section 106- Subsection c- Paragraph 1> Reference 2: [http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S- K- Section 106- Subsection c- Paragraph 1](http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20- F- Section 16K- Subsection c- Paragraph 1 Details Name: cyd_CybersecurityRiskBoardCommitteeOrSubcommitteeResponsibleForOversight) Reference 2: http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20- F- Section 16K- Subsection c- Paragraph 1 Details Name: cyd_CybersecurityRiskBoardOfDirectorsOversight TextBlock Namespace Prefix: cyd_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S- K- Section 106- Subsection c- Paragraph 2- Subparagraph i> Reference 2: [http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S- K- Section 106- Subsection c- Paragraph 2- Subparagraph i](http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20- F- Section 16K- Subsection c- Paragraph 2- Subparagraph i Details Name: cyd_CybersecurityRiskManagementExpertiseOfManagementResponsible) Details Name: cyd_CybersecurityRiskManagementPositionsOrCommitteesResponsibleFlag Namespace Prefix: cyd_ Data Type: i: booleanItemType Balance Type: na Period Type: durationX- ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S- K- Section 106- Subsection c- Paragraph 2- Subparagraph i> Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20- F- Section 16K- Subsection c- Paragraph 2- Subparagraph iii> Details Name: cyd_CybersecurityRiskManagementPositionsOrCommitteesResponsibleReportToBoardFlag Namespace Prefix: cyd_ Data Type: i: booleanItemType Balance Type: na Period Type: durationX- ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S- K- Section 106- Subsection b- Paragraph 1> Reference 2: [http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S- K- Section 106- Subsection b- Paragraph 1](http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20- F- Section 16K- Subsection b- Paragraph 1 Details Name: cyd_CybersecurityRiskManagementProcessesForAssessingIdentifyingAndManagingThreats) Subparagraph i Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20- F- Section 16K- Subsection b- Paragraph 1- Subparagraph i> Details Name: cyd_CybersecurityRiskManagementProcessesIntegratedFlag Namespace Prefix: cyd_ Data Type: i: booleanItemType Balance Type: na Period Type: durationX- ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S- K- Section 106- Subsection b- Paragraph 1- Subparagraph i> Subparagraph i Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20- F- Section 16K- Subsection b- Paragraph 1- Subparagraph i> Details Name: cyd_CybersecurityRiskManagementProcessesIntegratedTextBlock Namespace Prefix: cyd_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S- K- Section 106- Subsection b- Paragraph 1- Subparagraph i> Subparagraph i Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20- F- Section 16K- Subsection b- Paragraph 1- Subparagraph ii> Details Name: cyd_CybersecurityRiskManagementStrategyAndGovernanceLineItems Namespace Prefix: cyd_ Data Type: i: stringItemType Balance Type: na Period Type: durationX- ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S- K- Section 106- Subsection b- Paragraph 1- Subparagraph ii> Details Name: cyd_CybersecurityRiskManagementThirdPartyEngagedFlag Namespace Prefix: cyd_ Data Type: i:

booleanItemType Balance Type: na Period Type: durationX- ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S-K- Section 106- Subsection b- Paragraph 2>Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20-F- Section 16K- Subsection b- Paragraph 2> Details Name: cyd_CybersecurityRiskMateriallyAffectedOrReasonablyLikelyToMateriallyAffectRegistrantFlag Namespace Prefix: cyd_ Data Type: i: booleanItemType Balance Type: na Period Type: durationX- ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S-K- Section 106- Subsection b- Paragraph 2>Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20-F- Section 16K- Subsection b- Paragraph 2> Details Name: cyd_CybersecurityRiskMateriallyAffectedOrReasonablyLikelyToMateriallyAffectRegistrantTextBlock Namespace Prefix: cyd_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S-K- Section 106- Subsection c- Paragraph 1>Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20-F- Section 16K- Subsection c- Paragraph 1> Details Name: cyd_CybersecurityRiskProcessForInformingBoardCommitteeOrSubcommitteeResponsibleForOversightTextBlock Namespace Prefix: cyd_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesReference 1: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Regulation S-K- Section 106- Subsection b- Paragraph 1- Subparagraph iii>Reference 2: <http://www.xbrl.org/2003/role/presentationRef-Publisher SEC- Name Form 20-F- Section 16K- Subsection b- Paragraph 1- Subparagraph iii> Details Name: cyd_CybersecurityRiskThirdPartyOversightAndIdentificationProcessesFlag Namespace Prefix: cyd_ Data Type: i: booleanItemType Balance Type: na Period Type: durationNote A- Description of Business, Basis of Presentation and Significant Transactions 12 Months Ended Dec. 31, 2024 Notes to Financial Statements Business Description and Basis of Presentation [Text Block] A. Description of Business, Basis of Presentation, and Significant Transactions Organization Zevra Therapeutics, Inc. (the "Company") is a commercial-stage company focused on addressing unmet needs for the treatment of rare diseases. The Company has a diverse portfolio of products and product candidates, which includes clinical stage pipeline and commercial stage assets. On September 20, 2024, the U. S. Food and Drug Administration ("FDA") approved the New Drug Application ("NDA") for MIPLYFFA™ (arimolomol), an orally-delivered treatment for Niemann-Pick disease type C ("NPC"), which is an ultra-rare and progressive neurodegenerative disease. MIPLYFFA, the first FDA-approved treatment for NPC, is indicated for use in combination with miglustat for the treatment of neurological manifestations of NPC in adult and pediatric patients two years of age and older. In addition, the Company received a transferable rare pediatric disease priority review voucher ("PRV") in conjunction with the approval of MIPLYFFA. On February 26, 2025, the Company and Zevra Denmark A/S entered into an asset purchase agreement (the "PRV Transfer Agreement"), pursuant to which the Company agreed to sell the PRV to the buyer. Pursuant to the PRV Transfer Agreement, the buyer agreed to pay the Company \$150.0 million, payable in cash, upon the closing of the sale. The PRV Transfer Agreement contains customary representations, warranties, covenants, and indemnification provisions subject to certain limitations. The transaction remains subject to customary closing conditions, including the expiration or termination of the applicable waiting period under the Hart-Scott-Rodino Antitrust Improvements Act of 1976. MIPLYFFA has also been granted orphan medicinal product designation for the treatment of NPC by the European Commission. OLPRUVA® (sodium phenylbutyrate) for oral suspension is approved by the FDA for the treatment of urea cycle disorders ("UCDs"). The Company also has a pipeline of investigational product candidates, including celiprolol for the treatment of vascular Ehlers-Danlos syndrome in patients with a confirmed type III collagen mutation. KP1077 is the Company's clinical development product candidate which is being developed as a treatment for idiopathic hypersomnia ("IH"), a rare neurological sleep disorder, and narcolepsy. KP1077 is comprised solely of serdexmethylphenidate ("SDX"), the Company's proprietary prodrug of d-methylphenidate ("d-MPH"). The FDA has granted KP1077 orphan drug designation for the treatment of IH. The Company changed its name from KemPharm, Inc. to Zevra Therapeutics, Inc. effective as of February 21, 2023. On March 1, 2023, following its name change, the Company's common stock began trading on the Nasdaq Global Select Market under the ticker symbol "ZVRA". Basis of Presentation The Company prepared the consolidated financial statements in accordance with accounting principles generally accepted in the United States of America ("US GAAP") and the rules and regulations of the Securities and Exchange Commission ("SEC") and, in the Company's opinion, reflect all adjustments, including normal recurring items that are necessary. All significant intercompany accounts and transactions have been eliminated in consolidation. Merger On August 30, 2023, the Company and Aspen Z Merger Sub, Inc., a wholly-owned subsidiary of Zevra ("Merger Sub"), entered into an Agreement and Plan of Merger (the "Merger Agreement") with Acer Therapeutics Inc. ("Acer"), a pharmaceutical company focused on development and commercialization of therapies for rare and life-threatening diseases. On November 17, 2023 (the "Closing Date"), the Company completed the acquisition of Acer. Pursuant to the Merger Agreement, on the Closing Date, Merger Sub was merged with and into Acer (the "Merger"), with Acer continuing as the surviving entity and as a wholly-owned subsidiary of Zevra. In connection therewith, Zevra has also purchased Acer's secured debt from Nantahala Capital Management, LLC ("NCM"), certain of its affiliates and certain other parties (collectively with NCM, "Nantahala") through a series of transactions and Zevra agreed to provide Acer with a bridge loan facility for up to \$18.0 million ("Bridge Loan"), subject to certain terms and conditions. The Merger has expanded Zevra's rare disease portfolio, as well as increased and diversified its revenues with the addition of a U. S. commercial asset, OLPRUVA, indicated for the treatment of UCDs. See Note T for further discussion related to the Merger. Registration Statements on Form S-3 In connection with the Merger, Zevra and Nantahala concurrently entered into a registration rights agreement, pursuant to which Zevra agreed to file a resale registration statement with respect to the resale of the Zevra common stock issuable to Nantahala. On February 5, 2024, Zevra filed a registration statement on Form S-3 (File No. 333-276856) registering an aggregate of 2,269,721 shares of Zevra's common stock. On April 5, 2024, the Company filed an amendment to such registration statement, which was declared effective on April 8, 2024. On June 4, 2024, the Company filed a registration statement on Form S-3 (File No. 333-279941) (the "June 2024 Registration Statement") under which the Company may sell securities, including as may be issuable upon conversion, redemption, repurchase, exchange or exercise of securities, in one or more offerings up to a total aggregate offering price of \$350.0 million, \$75.0 million of which was allocated to the sale of the shares of common stock issuable under the 2024 ATM Agreement (as described further below). The registration statement was declared effective on June 13, 2024. August 2024 Offering On August 8, 2024, the Company entered into an underwriting agreement (the "Underwriting Agreement") with Cantor Fitzgerald & Co. and William Blair & Company, L.L.C., as representatives of the several underwriters named therein (collectively, the "Underwriters"), in connection with the offering, issuance and sale by the Company of 9,230,770 shares of the Company's common stock at a public offering price of \$64.50 per share, pursuant to the June 2024 Registration Statement and a related prospectus supplement dated August 8, 2024, filed with the SEC (the "August 2024 Offering"). Under the terms of the Underwriting Agreement, the Company also granted the Underwriters an option exercisable for 30 days to purchase up to an additional 1,384,615 shares of its Common Stock at the public offering price, less underwriting discounts and commissions, which the Underwriters exercised in full on August 9, 2024. The August 2024 Offering closed on August 12, 2024. Total shares issued were 10,615,385. Net proceeds from the offering were approximately \$64.5 million, after deducting underwriting discounts and commissions and estimated offering expenses payable by the Company. The Company intends to use the net proceeds of the offering to support the commercial launch activities for MIPLYFFA, continued commercial support for OLPRUVA and the continued development of celiprolol and KP1077 through potential NDA filings and other general corporate purposes. Entry into 2024 ATM Agreement On July 12, 2024, the Company entered into an equity distribution agreement (the "2024 ATM Agreement") with Citizens JMP Securities LLC ("Citizens JMP") under which the Company may offer and sell, from time to time at its sole discretion, shares of its common stock having an aggregate offering price of up to \$75.0 million through Citizens JMP as its sales agent. The issuance and sale, if any, of common stock by the Company under the 2024 ATM Agreement will be made pursuant to the June 2024 Registration Statement, the accompanying prospectus, and the related prospectus supplement dated July 12, 2024. Citizens JMP may sell the common stock by any method permitted by law deemed to be an "at the market offering" as defined in Rule 415 of the Securities Act. Citizens JMP will use commercially reasonable efforts to sell the common stock from time to time, based upon instructions from the Company (including any price, time or size limits or other customary parameters or conditions the Company may impose). The Company will pay Citizens JMP a commission equal to 3.0% in the aggregate of the gross sales proceeds of any common stock sold through Citizens JMP under the 2024 ATM Agreement. As of December 31, 2024, no shares have been issued or sold under the 2024 ATM Agreement. Termination of 2021 ATM Agreement On July 2, 2021, the Company entered into an equity distribution agreement (the "2021 ATM Agreement") with JMP Securities LLC ("JMP") and RBC Capital Markets, LLC ("RBCCM") under which the Company may offer and sell, from time to time at its sole discretion, shares of its common stock having an aggregate offering price of up to \$75.0 million through JMP and RBCCM as its sales agents. The issuance and sale, if any, of common stock by the Company under the 2021 ATM Agreement was made pursuant to the registration statement on Form S-3 (File No. 333-257661) which was declared effective on July 12, 2021, the accompanying prospectus, and the related prospectus supplement dated July 12, 2021. The 2021 ATM Agreement terminated on July 11, 2024, and no shares had been issued or sold under the 2021 ATM Agreement as of the termination date. Reclassifications Certain reclassifications were made to the 2023 consolidated financial statements to conform to the classifications used in 2024. These reclassifications had no impact on the consolidated net loss, changes in stockholder's equity, or cash flows previously reported. X- Definition The entire disclosure for the business description and basis of presentation concepts. Business description describes the nature and type of organization including but not limited to organizational structure as may be applicable to holding companies, parent and subsidiary relationships, business divisions, business units, business segments, affiliates and information about significant ownership of the reporting entity. Basis of presentation describes the underlying basis used to prepare the financial statements (for example, US Generally Accepted Accounting Principles, Other Comprehensive Basis of Accounting, IFRS). ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 235- Name Accounting Standards Codification- Publisher FASB- URI https://asc.fasb.org/235/tableOfContent>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 275- Name Accounting Standards Codification- Publisher FASB- URI https://asc.fasb.org/275/tableOfContent>Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic 205- Name Accounting Standards Codification- Publisher FASB- URI https://asc.fasb.org/205/tableOfContent> Details Name: us-gaap_BusinessDescriptionAndBasisOfPresentationTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us-gaap_DisclosureTextBlockAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: durationNote B- Summary of Significant Accounting Policies 12 Months Ended Dec. 31, 2024 Notes to Financial Statements Significant Accounting Policies [Text Block] B. Summary of Significant Accounting Policies Use of Estimates The preparation of these consolidated financial statements in conformity with U. S. GAAP requires the Company to make estimates and assumptions that affect the amounts reported in the consolidated financial statements and accompanying notes. Actual results could differ from those estimates. On an ongoing basis, the Company evaluates its estimates and

assumptions, including those related to revenue recognition, the useful lives of property and equipment, the recoverability of long-lived assets, the incremental borrowing rate for leases, and assumptions used for purposes of determining stock-based compensation, income taxes, the fair value of the derivative and warrant liability and discount and rebate liabilities, among others. The Company bases its estimates on historical experience and on various other assumptions that it believes to be reasonable, the results of which form the basis for making judgments about the carrying value of assets and liabilities. Concentration of Credit Risk Financial instruments that potentially expose the Company to concentrations of credit risk consist principally of cash on deposit and investments with multiple financial institutions, the balances of which frequently exceed insured limits, and accounts receivable, which are concentrated amongst a limited number of customers. Cash and Cash Equivalents The Company considers any highly liquid investments with an original maturity of three months or less to be cash equivalents. Investments The Company maintains investment securities that are classified as available-for-sale securities for which the Company has elected the fair value option under Financial Accounting Standards Board ("FASB") Accounting Standards Codification ("ASC") Topic 825, Financial Instruments. As such, these securities are carried at fair value with unrealized gains and losses included in fair value adjustment related to investments on the consolidated statements of operations. The securities primarily consist of U. S. Treasury securities and U. S. government-sponsored agency securities and are included in securities at fair value in the consolidated balance sheets. As of December 31, 2024, and 2023, the Company held securities with an aggregate fair value of \$ 41. 7 million and \$ 24. 7 million, respectively, that contained aggregate unrealized gains of approximately \$ 18, 000 and \$ 0. 6 million, respectively. For securities held at December 31, 2024, \$ 35. 7 million mature within one year and \$ 6. 0 million mature in one to five years. Applying fair value accounting to these debt securities more accurately represents the Company's investment strategy due to the fact that excess cash is currently being invested for the purpose of funding future operations. Interest income is recognized as earned using an effective yield method giving effect to the amortization of premium and accretion of discount and is based on the economic life of the securities. Interest income is included in Interest and other income, net in the consolidated statements of operations. Variable Interest Entities The primary beneficiary of a variable interest entity ("VIE") is required to consolidate the assets and liabilities of the VIE. When the Company obtains a variable interest in another entity, it assesses at the inception of the relationship and upon occurrence of certain significant events whether the entity is a VIE, and if so, whether the Company is the primary beneficiary of the VIE based on its power to direct the activities of the VIE that most significantly impact the VIE's economic performance and the Company's obligation to absorb losses or the rights to receive benefits from the VIE that could potentially be significant to the VIE. To assess whether the Company has the power to direct the activities of the VIE that most significantly impact the VIE's economic performance, the Company considers all the facts and circumstances, including the Company's role in establishing the VIE and the Company's ongoing rights and responsibilities. The assessment includes identifying the activities that most significantly impact the VIE's economic performance and identifying which party, if any, has the power to direct those activities. In general, the parties that make the most significant decisions affecting the VIE (management and representation on the Board of Directors) are deemed to have the power to direct the activities of a VIE. To assess whether the Company has the obligation to absorb losses of the VIE or the rights to receive benefits from the VIE that could potentially be significant to the VIE, the Company considers all of its economic interests that are deemed to be variable interests in the VIE. This assessment requires judgement in determining whether these interests, in the aggregate, are considered potentially significant to the VIE. As of December 31, 2024, and 2023, the Company identified Acer to be the Company's sole interest in a VIE (Note T). As Zevra is the final decision maker for all of Acer's research, development, and commercialization of drug candidates that it is producing, the Company directs the activities of Acer that most significantly impact its performance. Therefore, the Company is the primary beneficiary of this VIE for accounting purposes. Goodwill and Intangible Assets Goodwill represents the excess of the consideration transferred over the fair value of the net assets acquired when accounted for using the acquisition method of accounting for business combinations. Goodwill is not amortized but is evaluated for impairment within the Company's single reporting unit on an annual basis, during the fourth quarter, or more frequently if an event occurs or circumstances change that would more-likely-than-not reduce the fair value of the Company's reporting unit below its carrying amount. The Company establishes its reporting units based on the organizational structure and has determined it has one reporting unit. In performing its analysis, in accordance with ASC 350, the Company has the option to first assess qualitatively whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount, including goodwill. In performing qualitative assessments, the Company considers, among other factors, macroeconomic conditions, the Company's overall financial performance (including, but not limited to, comparisons to prior periods, current period internal expectations, and comparable peer companies), broader industry and market considerations, and the trading price performance of the Company's common stock. The Company's goodwill balance was \$ 4. 7 million as of December 31, 2024, and 2023. As of December 31, 2024, and 2023, the Company completed its annual qualitative assessment under ASC 350 to determine whether the existence of events or circumstances indicated that it was more likely than not that the fair value of its reporting unit was less than its respective carrying value. The Company concluded that based on the relevant events and circumstances, it was more likely than not that the reporting unit's fair value exceeded its related carrying value and therefore no quantitative assessment was required. No goodwill impairment charges were recorded for the year ended December 31, 2024, or 2023. Acquired-in-process research and development ("IPR & D") that the Company acquires in conjunction with the acquisition of a business represents the fair value assigned to incomplete research projects which, at the time of acquisition, have not reached technological feasibility. The amounts are capitalized and are accounted for as indefinite-lived intangible assets, subject to impairment testing until completion or abandonment of the projects. Upon successful completion of each IPR & D project, the Company will make a determination as to the then-useful life of the intangible asset, generally determined by the period in which the substantial majority of the cash flows are expected to be generated and begin amortization. The Company evaluates IPR & D for impairment on an annual basis, during the fourth quarter, or more frequently if impairment indicators exist. The Company's IPR & D balance was \$ 2. 0 million as of December 31, 2024, and 2023. No IPR & D impairment charges were recognized for the years ended December 31, 2024, or 2023. As of December 31, 2024, and 2023, the Company had a definite-lived intangible asset, net related to the acquisition of OLPRUVA as a result of the Merger of \$ 61. 3 million and \$ 67. 2 million, respectively. This asset is amortized on a straight-line basis over the OLPRUVA patent life of thirteen years. Amortization expense is recorded as intangible asset amortization in the consolidated statements of operations and was \$ 5. 9 million and \$ 0. 8 million for the years ended December 31, 2024, and 2023, respectively. The Company reviews the estimated useful lives of its intangible assets on an ongoing basis (Note S). In connection with the XOMA License Agreement, the Company paid XOMA a regulatory milestone payment of \$ 6. 0 million upon approval of MIPLYFFA in September 2024, which is included in intangible assets, net in the consolidated balance sheet. This definite-lived intangible asset is amortized on a straight-line basis over the MIPLYFFA patent life of approximately five years and is reviewed periodically for impairment. Amortization expense is recorded as intangible asset amortization in the consolidated statement of operations and was \$ 0. 3 million for the year ended December 31, 2024. Property and Equipment The Company records property and equipment at cost less accumulated depreciation and amortization. Costs of renewals and improvements that extend the useful lives of the assets are capitalized. Maintenance and repairs are expensed as incurred. Depreciation is determined on a straight-line basis over the estimated useful lives of the assets, which generally range from three to ten years. Leasehold improvements are amortized over the shorter of the useful life of the asset or the term of the related lease. Upon retirement or disposition of assets, the costs and related accumulated depreciation and amortization are removed from the accounts with the resulting gains or losses, if any, reflected in the consolidated statements of operations. Impairment of Long-Lived Assets Long-lived assets to be held and used are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amounts of the assets may not be recoverable. When such events occur, the Company compares the carrying amounts of the assets to their undiscounted expected future cash flows. If the undiscounted cash flows are insufficient to recover the carrying values, an impairment loss is recorded for the difference between the carrying values and fair values of the asset. No such impairment occurred for the years ended December 31, 2024, or 2023. Revenue Recognition The Company recognizes revenue in accordance with ASC 606, Revenue from Contracts with Customers ("ASC 606") and, as a result, follows the five-step model when recognizing revenue: 1) identifying a contract; 2) identifying the performance obligations; 3) determining the transaction price; 4) allocating the price to the performance obligations; and 5) recognizing revenue when the performance obligations have been fulfilled. Product Revenues, Net Net revenues from product sales are recognized at the transaction price when the customer obtains control of the Company's product, which occurs at a point in time, typically upon receipt of the product by the customer. The Company's current single customer is a specialty pharmacy provider. The Company's net revenues represent total revenues adjusted for discounts and allowances, including estimated cash discounts, chargebacks, rebates, returns, copay assistance, data fees and wholesaler fees for services. These adjustments represent variable consideration under ASC 606 and are recorded as a reduction of revenue. These adjustments are established by management as its best estimate based on available information and will be adjusted to reflect known changes in the factors that impact such allowances. Adjustments for variable consideration are determined based on the contractual terms with customers, historical trends, communications with customers and the levels of inventory remaining in the distribution channel, as well as expectations about the market for the product and anticipated introduction of competitive products. Licensing Agreements The terms of the Company's licensing agreements typically include one or more of the following: (i) upfront fees; (ii) milestone payments related to the achievement of development, regulatory, or commercial goals; and (iii) royalties on net sales of licensed products. Each of these payments may result in licensing revenues. As part of the accounting for these agreements, the Company must develop estimates and assumptions that require judgment to determine the underlying stand-alone selling price for each performance obligation which determines how the transaction price is allocated among the performance obligations. Generally, the estimation of the stand-alone selling price may include such estimates as independent evidence of market price, forecasted revenues or costs, development timelines, discount rates, and probability of regulatory success. The Company evaluates each performance obligation to determine if they can be satisfied at a point in time or over time, and it measures the services delivered to the licensee which are periodically reviewed based on the progress of the related program. The effect of any change made to an estimated input component and, therefore revenue or expense recognized, would be recorded as a change in estimate. In addition, variable consideration (e. g., milestone payments) must be evaluated to determine if it is constrained and, therefore, excluded from the transaction price. Up-front Fees: If a license to the Company's intellectual property is determined to be distinct from the other performance obligations identified in the arrangement, the Company recognizes revenues from the transaction price allocated to the license when the license is transferred to the licensee and the licensee is able to use and benefit from the license. For licenses that are bundled with other promises, the Company utilizes judgment to assess the nature of the combined performance obligation to determine whether the combined performance obligation is satisfied over time or at a point in time. Milestone Payments: At the inception of each arrangement that includes milestone payments (variable consideration), the Company evaluates whether the milestones are considered probable of being reached and estimates the amount to be included in the transaction price using the most likely amount method. If it is probable that a significant revenue reversal would not occur, the

associated milestone value is included in the transaction price. Milestone payments that are not within the Company's or the licensee's control, such as non-operational, developmental and regulatory approvals, are generally not considered probable of being achieved until those approvals are received. At the end of each reporting period, the Company re-evaluates the probability of achievement of milestones that are within its or the licensee's control, such as operational developmental milestones and any related constraint, and if necessary, adjusts its estimate of the overall transaction price. Any such adjustments are recorded on a cumulative catch-up basis, which would affect collaboration revenues and earnings in the period of adjustment. Revisions to the Company's estimate of the transaction price may also result in negative licensing revenues and earnings in the period of adjustment. Arimoclomol Expanded Access Program Net revenue includes revenue from the sale of arimoclomol for the treatment of NPC under the remunerated expanded access compassionate use program in France, Accès Compassionnel ("French AC"). An expanded access compassionate use program is a program giving specific patients access to a drug, which is not yet approved for commercial sale. Only drugs targeting serious or rare indications and for which there is currently no appropriate treatment are considered for expanded access compassionate use programs. Further, to be considered for the expanded access compassionate use program, the drug must have proven efficacy and safety and must either be undergoing price negotiations or seeking marketing approval. In accordance with ASC 606, the Company recognizes revenue when fulfilling its performance obligation under the Arimoclomol Expanded Access Program ("Arimoclomol EAP") by transferring control of promised goods or services to its customer, in an amount that reflects the consideration that the Company expects to receive in exchange for those goods or services. In determining when the customer obtains control of the product, the Company considers certain indicators, including whether the Company has a present right to payment from the customer, whether title and / or significant risks and rewards of ownership have transferred to the customer and whether customer acceptance has been received. Revenue is recognized net of sales deductions, including discounts, rebates, applicable distributor fees, and revenue-based taxes. The French Health Authorities and the manufacturer have agreed to a price for sales under the French AC, but the final transaction price depends on the terms and conditions in the contracts with the French Health Authorities, following market approval. Any excess in the price charged by the manufacturer compared to the price agreed with the health authorities once the drug product is approved in France must be repaid. The repayment is considered in the clawback liability (rebate). An estimate of net revenue and clawback liability are recognized using the 'expected value' method. Accounting for net revenue and clawback liability requires determination of the most appropriate method for the expected final transaction price. This estimate also requires assumptions with respect to inputs into the method, including current pricing of comparable marketed products within the rare disease area in France. Management has considered the expected final sales price as well as the price of similar drug products. The Company is operating within a rare disease therapeutic area where there is unmet treatment need and hence a limited number of comparable commercialized drug products. The limited available relevant market information for directly comparable commercialized drugs within rare disease increases the uncertainty in management's estimate. Acquired IPR & D and Milestones Expenses In an asset acquisition, payments incurred prior to regulatory approval to acquire rights to in-process R & D projects are expensed as acquired IPR & D and milestones expense in the consolidated statements of earnings unless the project has an alternative future use. These costs include upfront and development milestone payments related to R & D collaborations, licensing arrangements, or other asset acquisitions that provide rights to develop, manufacture and / or sell pharmaceutical products. Where contingent development milestone payments are due to third parties, prior to regulatory approval, the payment obligations are expensed when the milestone results are achieved. Regulatory and commercial milestone payments made to third parties subsequent to regulatory approval are capitalized as intangible assets and amortized to intangible asset amortization over the remaining useful life of the related product. Inventories The value of inventories is recorded at net realizable value. The Company determines the cost of its other inventories, which includes amounts related to materials and manufacturing overhead, on a first-in, first-out basis. Inventories that are not expected to be sold within 12 months are classified as Inventories, noncurrent. The Company may scale-up and make commercial quantities of its product candidates prior to the date it anticipates that such product will receive final regulatory approval. The scale-up and commercial production of pre-launch inventory involves the risk that such products may not be approved for marketing on a timely basis, or ever. This risk notwithstanding, the Company may scale-up and build pre-launch inventory of product that have not received final regulatory approval when the Company believes such action is appropriate in relation to the commercial value of the product launch opportunity. We capitalize inventory costs associated with our products prior to regulatory approval when, based on management's judgment, future commercialization is considered probable and the future economic benefit is expected to be realized; otherwise, such costs are expensed as research and development. The determination to capitalize inventory costs is based on various factors, including status and expectations of the regulatory approval process, any known safety or efficacy concerns, potential labeling restrictions, and any other impediments to obtaining regulatory approval. We had no pre-approval inventory on our consolidated balance sheet as of December 31, 2024, or 2023. Inventory used in clinical trials is also expensed as research and development expense, when selected for such use. Inventory that can be used in either the production of clinical or commercial products is expensed as research and development costs when identified for use in a clinical manufacturing campaign. The cost of finished goods inventory that is shipped to a customer to support the Company's patient assistance programs is expensed when those shipments take place. As of December 31, 2024, and 2023, the Company did not have pre-launch inventory that qualified for capitalization. The Company performs an assessment of the recoverability of capitalized inventory during each reporting period and writes down any excess and obsolete inventory to its net realizable value in the period in which the impairment is first identified. Such impairment charges, should they occur, are recorded as a component of cost of product revenue in the statements of operations and comprehensive loss. The determination of whether inventory costs will be realizable requires the use of estimates by management. If actual market conditions are less favorable than projected by management, additional write-downs of inventory may be required. Additionally, the Company's product is subject to strict quality control and monitoring that it performs throughout the manufacturing process. In the event that certain batches or units of product do not meet quality specifications, the Company will record a charge to cost of product revenue, to write-down any unsaleable inventory to its estimated net realizable value. For the year ended December 31, 2024, the Company recognized a charge of approximately \$ 5.7 million related to write-downs for unsaleable inventory. No such write-downs were recognized for the year ended December 31, 2023.

Cost of Product Revenue The components of cost of product revenue are royalties and expenses directly attributable to revenue. To date, the Company has generated revenue from product sales of MIPLYFFA and OLPRUVA, the AZSTARYS License Agreement, sales of arimoclomol under the EAP, reimbursement of out-of-pocket third-party costs and the performance of consulting services. In connection with the AZSTARYS License Agreement, the Company pays Aquestive a royalty equal to 10 % of all regulatory milestone and royalty payments. In addition, the Company capitalized incremental costs directly attributable to the AZSTARYS License Agreement. These costs are amortized to royalties and contract costs as revenue is recognized. Under the XOMA License Agreement, XOMA is entitled to a mid-single digit percentage royalty with respect to net sales of MIPLYFFA. In addition, the Company also pays a low-single digit percentage royalty to Kansas University Center for Technology Commercialization, Inc. with respect to net sales of MIPLYFFA. Accounts and Other Receivables Accounts and other receivables consist of receivables from MIPLYFFA and OLPRUVA product sales, receivables under the AZSTARYS License Agreement and the EAP, and income tax receivables and other receivables due to the Company. Receivables under the AZSTARYS License Agreement are recorded for amounts due to the Company related to reimbursable third-party costs as well as milestones and royalties on product sales. Receivables under the EAP are recorded for product sales under the French AC. The Company provides reserves against receivables for estimated losses that may result from a customer's inability to pay. Receivables are evaluated to determine if any reserve or allowance should be recorded based on consideration of the current economic environment, expectations of future economic conditions, specific circumstances and the Company's own historical collection experience. Amounts determined to be uncollectible are charged or written-off against the reserve. Research and Development Major components of research and development costs include cash compensation, stock-based compensation, depreciation and amortization expense on research and development property and equipment, costs of preclinical studies, clinical trials and related clinical manufacturing, costs of drug development, costs of materials and supplies, facilities cost, overhead costs, regulatory and compliance costs, and fees paid to consultants and other entities that conduct certain research and development activities on the Company's behalf. Costs incurred in research and development are expensed as incurred. The Company records nonrefundable advance payments it makes for future research and development activities as prepaid expenses. Prepaid expenses are recognized as expense in the statements of operations as the Company receives the related goods or services. The Company enters into contractual agreements with third-party vendors who provide research and development, manufacturing, and other services in the ordinary course of business. Some of these contracts are subject to milestone-based invoicing and services are completed over an extended period of time. The Company records liabilities under these contractual commitments when an obligation has been incurred. This accrual process involves reviewing open contracts and purchase orders, communicating with the applicable personnel to identify services that have been performed and estimating the level of service performed and the associated cost when the Company has not yet been invoiced or otherwise notified of actual cost. The majority of the service providers invoice the Company monthly in arrears for services performed. The Company makes estimates of the accrued expenses as of each balance sheet date based on the facts and circumstances known. The Company periodically confirms the accuracy of the estimates with the service providers and make adjustments, if necessary. Patent Costs Patent costs, including related legal costs, are expensed as incurred and recorded within general and administrative expenses on the statements of operations. Income Taxes The Company recognizes deferred tax assets and liabilities for the expected future tax consequences of temporary differences between the financial reporting and tax basis of assets and liabilities, as well as for operating loss and tax credit carryforwards. Deferred tax assets and liabilities are measured using the tax rates that are expected to apply to taxable income for the years in which those tax assets and liabilities are expected to be realized or settled. Valuation allowances are recorded to reduce deferred tax assets to the amount the Company believes is more likely than not to be realized. Uncertain tax positions are recognized only when the Company believes it is more likely than not that the tax position will be upheld on examination by the taxing authorities based on the merits of the position. The Company recognizes interest and penalties, if any, related to unrecognized income tax uncertainties in income tax expense. The Company did not have any accrued interest or penalties associated with uncertain tax positions as of December 31, 2024 and 2023. The Company files income tax returns in the United States for federal and various state jurisdictions. With few exceptions, the Company is no longer subject to U. S. federal and state and local income tax examinations for years prior to 2015, although carryforward attributes that were generated prior to 2017 may still be adjusted upon examination by the Internal Revenue Service if used in a future period. No income tax returns are currently under examination by taxing authorities. On December 22, 2017, the U. S. government enacted H. R. 1, "An Act to provide for reconciliation pursuant to titles II and V of the concurrent resolution on the budget for fiscal year 2018" ("Tax Act"). Effective January 1, 2018, the Tax Act provides for a new global intangible low-taxed income ("GILTI") provision. Under the GILTI provision, certain foreign subsidiary earnings in excess of an allowable return on the foreign subsidiary's tangible assets are included in U. S. taxable income. The

Company has not recorded any deferred taxes for future GILTI inclusions as any future inclusions are expected to be treated as a period expense and offset by net operating loss carryforwards in the U. S. Stock- Based Compensation The Company measures and recognizes compensation expense for all stock- based payment awards made to employees, officers and directors based on the estimated fair values of the awards as of the grant date. The Company records the value of the portion of the award that is ultimately expected to vest as expense over the requisite service period. The Company also accounts for equity instruments issued to non- employees using a fair value approach under Accounting Standards Codification (" ASC") subtopic 505- 50. The Company values equity instruments and stock options granted using the Black- Scholes option pricing model. Basic and Diluted Net Loss per Share of Common Stock The Company uses the two- class method to compute net loss per common share because the Company has issued securities, other than common stock, that contractually entitle the holders to participate in dividends and earnings of the Company. The two- class method requires earnings for the period to be allocated between common stock and participating securities based upon their respective rights to receive distributed and undistributed earnings. Holders of each series of the Company's convertible preferred stock and select warrants are entitled to participate in distributions, when and if declared by the board of directors, that are made to common stockholders and, as a result, are considered participating securities. Segment and Geographic Information Operating segments are defined as components of an enterprise (business activity from which it earns revenue and incurs expenses) for which discrete financial information is available and regularly reviewed by the chief operating decision maker (" CODM") in deciding how to allocate resources and in assessing performance. The Company's CODM is its Chief Executive Officer. The Company views its operations and manages its business as a single operating and reporting segment. The Company holds long- lived assets in the United States of \$ 13. 4 million and \$ 10. 9 million as of December 31, 2024 and 2023 respectively. The Company holds long- lived assets in Europe of \$ 0. 5 million as of both December 31, 2024 and 2023 Foreign currency Assets and liabilities are translated into the reporting currency using the exchange rates in effect on the consolidated balance sheet dates. Equity accounts are translated at historical rates, except for the change in retained earnings during the year, which is the result of the income statement translation process. Revenue and expense accounts are translated using the weighted average exchange rate during the period. The cumulative translation adjustments associated with the net assets of foreign subsidiaries are recorded in accumulated other comprehensive income /loss in the accompanying consolidated statements of stockholders' equity. Debt Issuance Costs Debt issuance costs incurred in connection with financing arrangements are recorded as a reduction of the related debt on the balance sheet and amortized over the life of the respective financing arrangement using the effective interest method. Warrants The Company accounts for warrants as either equity- classified or liability- classified instruments based on an assessment of the warrant's specific terms and applicable authoritative guidance in FASB ASC Topic 480, Distinguishing Liabilities from Equity (ASC 480) and FASB ASC Topic 815, Derivatives and Hedging (ASC 815). The assessment considers whether the warrants are freestanding financial instruments pursuant to ASC 480, meet the definition of a liability pursuant to ASC 480, and whether the warrants meet all of the requirements for equity classification under ASC 815, including whether the warrants are indexed to the Company's own stock and whether the warrant holders could potentially require " net cash settlement " in a circumstance outside of the company's control, among other conditions for equity classification. This assessment, which requires the use of professional judgment, is conducted at the time of warrant issuance and as of each subsequent quarterly period end date while the warrants are outstanding. For warrants that meet all criteria for equity classification, the warrants are required to be recorded as a component of additional paid- in capital, on the consolidated statement of stockholders' deficit at the time of issuance. For warrants that do not meet all the criteria for equity classification, the warrants are required to be recorded at their initial fair value on the date of issuance, and on each balance sheet date thereafter. Changes in the estimated fair value of the warrants are recognized as a non- cash gain or loss in other expense, net, on the consolidated statement of operations. The fair value of the warrants was estimated using the Black- Scholes option pricing model. New Accounting Pronouncements Recently Adopted Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures In November 2023, the FASB issued Accounting Standards Update (" ASU") No. 2023- 07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures. The standard expands reportable segment disclosure requirements for public business entities primarily through expanded disclosures about significant segment expenses that are regularly provided to the chief operating decision maker (" CODM") and included within each reported measure of segment profit and loss. The Company adopted this standard for its fiscal year 2024 annual financial statements and have applied this standard retrospectively for all prior periods presented in the financial statements. See Note C for further information. New Accounting Pronouncements Not Yet Adopted Income Taxes (Topic 740): Improvements to Income Tax Disclosures In December 2023, the FASB issued ASU No. 2023- 09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures, which expands disclosures in an entity's income tax rate reconciliation table and disclosures regarding cash taxes paid both in the U. S. and foreign jurisdictions. The update will be effective for annual periods beginning after December 15, 2024. The Company is currently evaluating the impact that this guidance will have on the presentation of its consolidated financial statements and accompanying notes. X- ReferencesNo definition available. Details Name: us- gaap_DisclosureTextBlockAbstract Namespace Prefix: us- gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionThe entire disclosure for all significant accounting policies of the reporting entity. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic-235-SubTopic-10-NameAccountingStandardsCodification-Section-50-Paragraph-1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483426/235-10-50-1>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic-235-NameAccountingStandardsCodification-PublisherFASB-URIhttps://asc.fasb.org/235/tableOfContentDetailsName:us-gaap_SignificantAccountingPoliciesTextBlockNamespacePrefix:us-gaap_DataType:dtr-typer:textBlockItemTypeBalanceType:naPeriodType:durationNoteC-SegmentInformation12-MonthsEndedDec.31,2024NotesToFinancialStatementsSegmentReportingDisclosure\[TextBlock\]C.SegmentInformation](http://fasb.org/us-gaap/role/ref/legacyRef-Topic-235-NameAccountingStandardsCodification-PublisherFASB-URIhttps://asc.fasb.org/235/tableOfContentDetailsName:us-gaap_SignificantAccountingPoliciesTextBlockNamespacePrefix:us-gaap_DataType:dtr-typer:textBlockItemTypeBalanceType:naPeriodType:durationNoteC-SegmentInformation12-MonthsEndedDec.31,2024NotesToFinancialStatementsSegmentReportingDisclosure[TextBlock]C.SegmentInformation) Zevra manages its business activities on a consolidated basis and operates as a single operating segment dedicated to the research and development, manufacturing, commercialization and sale of innovative medicines and therapies. The Company primarily derives its revenue from reimbursements received from the EAP, AZSTARYS License Agreement, OLPRUVA product sales, MIPLYFFA product sales, and consulting arrangements. The accounting policies of the segment are the same as those described in Note B. Zevra's CODM is the Company's Chief Executive Officer, Neil F. McFarlane. The CODM uses net loss, as reported in the Company's Consolidated Statements of Comprehensive Loss, in evaluating performance of its segment and determining how to allocate resources of the Company as a whole, including investing in its research and development, commercialization efforts, and acquisition strategy. The CODM does not review assets in evaluating the results of the segment, and therefore, such information is not presented. The following table presents the operating results of the Company's segment: December 31, December 31, 2024 2023 Total revenues \$ 23, 612 \$ 27, 461 Less significant segment expenses: Research and development directly identified to programs 22, 532 30, 083 Research and development not directly identified to programs 19, 562 9, 723 Selling, general and administrative directly identified to programs 18, 094 7, 770 Selling, general and administrative not directly identified to programs 36, 775 26, 544 Other segment items: Income tax expense 15, 371 Interest income (3, 159) (4, 527) Depreciation and amortization expense 6, 389 1, 006 Interest expense 7, 351 1, 501 Other expense, net (a) 6, 208 1, 410 Segment net loss \$ (105, 511) \$ (46, 049) (a) Other expense, net included in segment net loss includes foreign currency exchange gains and losses, cost of product revenue (excluding intangible asset amortization), fair value adjustment related to warrant and CVR liabilities, fair value adjustment related to investments, and other overhead expense. X- ReferencesNo definition available. Details Name: us- gaap_DisclosureTextBlockAbstract Namespace Prefix: us- gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionThe entire disclosure for reporting segments including data and tables. Reportable segments include those that meet any of the following quantitative thresholds a) it's reported revenue, including sales to external customers and intersegment sales or transfers is 10 percent or more of the combined revenue, internal and external, of all operating segments b) the absolute amount of its reported profit or loss is 10 percent or more of the greater, in absolute amount of 1) the combined reported profit of all operating segments that did not report a loss or 2) the combined reported loss of all operating segments that did report a loss c) its assets are 10 percent or more of the combined assets of all operating segments. 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Inventories The components of inventory are summarized as follows (in thousands): December 31, 2023 Raw Materials \$ 7, 928 \$ 2, 938 Work in progress 3, 260 1, 884 Finished goods 1, 781 5, 019 Total inventories \$ 12, 969 \$ 9, 841 X- ReferencesNo definition available. Details Name: us-gaap_DisclosureTextBlockAbstract Namespace Prefix: us-gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionThe entire disclosure for inventory. Includes, but is not limited to, the basis of stating inventory, the method of determining inventory cost, the classes of inventory, and the nature of the cost elements included in inventory. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic330-NameAccountingStandardsCodification-PublisherFASB-URIhttps://asc.fasb.org/330/tableOfContentReference26:https://www.xbrl.org/2003/role/disclosureRef-Topic330-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482925/835-30-45-2>Details Name: us-gaap_InventoryDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationNote E- Accounts and Other Receivables 12 Months Ended Dec. 31, 2024 Notes to Financial Statements Loans, Notes, Trade and Other Receivables Disclosure | Text Block | E. Accounts and Other Receivables Accounts and other receivables consist of the following (in thousands): December 31, 2024 2023 Accounts receivable \$ 10, 176 \$ 16, 119 Other receivables 333 1, 258 Total accounts and other receivables \$ 10, 509 \$ 17, 377 X- ReferencesNo definition available. Details Name: us-gaap_DisclosureTextBlockAbstract Namespace Prefix: us-gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionThe entire disclosure for claims held for amounts due to entity, excluding financing receivables. Examples include, but are not limited to, trade accounts receivables, notes receivables, loans receivables. Includes disclosure for allowance for credit losses. ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic310-SubTopic10-NameAccountingStandardsCodification-PublisherFASB-URIhttps://asc.fasb.org/310-10/tableOfContentReference27:https://www.xbrl.org/2003/role/disclosureRef-Topic835-SubTopic30-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482925/835-30-45-2>Details Name: us-gaap_LoansNotesTradeAndOtherReceivablesDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationNote F- Prepaid Expenses and Other Current Assets 12 Months Ended Dec. 31, 2024 Notes to Financial Statements Other Current Assets | Text Block | F. Prepaid Expenses and Other Current Assets Prepaid expenses and other current assets consist of the following (in thousands): December 31, 2024 2023 Prepaid insurance \$ 1, 037 \$ 1, 172 Other prepaid expenses and current assets 3, 015 652 Total prepaid expenses and other current assets \$ 4, 052 \$ 1, 824 X- ReferencesNo definition available. Details Name: us-gaap_DisclosureTextBlockAbstract Namespace Prefix: us-gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionThe entire disclosure for other current assets. ReferencesNo definition available. Details Name: us-gaap_OtherCurrentAssetsTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationNote G- Property and Equipment 12 Months Ended Dec. 31, 2024 Notes to Financial Statements Property, Plant and Equipment Disclosure | Text Block | G. Property and Equipment Property and equipment consist of the following (in thousands): December 31, 2024 2023 Laboratory equipment \$ 463 \$ 711 Furniture and office equipment 200 157 Computers and hardware 701 643 Leasehold improvements 710 710 Finance lease right-of-use assets 8 149 Total property and equipment 2, 082 2, 370 Less: accumulated depreciation and amortization (1, 726) (1, 634) Property and equipment, net \$ 356 \$ 736 The estimated useful lives of property and equipment are as follows: Useful Life Asset Category (in years) Laboratory equipment 10 Furniture and office equipment 5-10 Computers and hardware 3-7 Leasehold improvements 9 Depreciation and amortization expense, including amounts pertaining to assets held under finance leases, was approximately \$ 208, 000 and \$ 245, 000 for the years ended December 31, 2024 and 2023, respectively. X- ReferencesNo definition available. Details Name: us-gaap_DisclosureTextBlockAbstract Namespace Prefix: us-gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionThe entire disclosure for long-lived, physical asset used in normal conduct of business and not intended for resale. Includes, but is not limited to, work of art, historical treasure, and similar asset classified as collections. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic360-NameAccountingStandardsCodification-PublisherFASB-URIhttps://asc.fasb.org/360/tableOfContentReference28:https://www.xbrl.org/2003/role/disclosureRef-NameAccountingStandardsCodification-Section50-Paragraph6-SubTopic360-Topic958-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477798/958-360-50-6>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-NameAccountingStandardsCodification-Section50-Paragraph7-SubTopic360-Topic958-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477798/958-360-50-7>Details Name: us-gaap_PropertyPlantAndEquipmentDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationNote H- Accounts Payable and Accrued Expenses 12 Months Ended Dec. 31, 2024 Notes to Financial Statements Accounts Payable, Accrued Liabilities, and Other Liabilities Disclosure, Current | Text Block | H. Accounts Payable and Accrued Expenses Accounts payable and accrued expenses consist of the following (in thousands): December 31, 2024 2023 Accrued payroll 6, 126 10, 671 Accrued professional fees 863 675 Accounts payable 13, 075 13, 987 Other accrued expenses 5, 392 3, 070 Total accounts payable and accrued expenses \$ 25, 456 \$ 28, 403 X- DefinitionThe entire disclosure for accounts payable, accrued expenses, and other liabilities that are classified as current at the end of the reporting period. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic720-SubTopic30-NameAccountingStandardsCodification-Section45-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483384/720-30-45-1>Details Name: us-gaap_AccountsPayableAccruedLiabilitiesAndOtherLiabilitiesDisclosureCurrentTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us-gaap_DisclosureTextBlockAbstract Namespace Prefix: us-gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationNote I- Debt Obligations 12 Months Ended Dec. 31, 2024 Notes to Financial Statements Debt Disclosure | Text Block | I. Debt Obligations Secured Promissory Note In connection with the Merger (Note T), on August 30, 2023, the Company and Nantahala, entered into a secured promissory note payable by Zevra to Nantahala in the original principal amount of \$ 5. 0 million (the " Nantahala Note"). The Nantahala Note initially bore interest at 9. 0 % per annum, payable quarterly in arrears in cash. The interest rate increased to 12. 0 % per annum effective March 1, 2024, as the Nantahala Note remained unpaid six months from its issue date. The additional 3. 0 % interest would have been paid in shares of Zevra's common stock based on the volume weighted average trading price (" VWAP") of Zevra's common stock during the twenty consecutive trading days ending on the date before such interest payment date. Beginning on the first interest payment date following the second anniversary of the Nantahala Note, and on each interest payment date thereafter, Zevra was required to make \$ 0. 6 million amortization payments on the Nantahala Note until it was paid in full. All principal and unpaid interest on the Nantahala Note would have been due on August 30, 2026, the third anniversary of the Nantahala Note. Zevra was entitled to prepay the Nantahala Note at any time without penalty. The Nantahala Note was secured by Zevra's interest in (i) the loan assets under the Loan Purchase Agreement described in Note T; (ii) the note assets under the Note Purchase Agreement described in Note T; (iii) the Bridge Loan described in Note T; and (iv) the proceeds therefrom. The Company used the proceeds from the Nantahala Note, along with \$ 12. 0 million in cash and 98, 683 shares of Zevra's common stock, to acquire Acer's term loans, as more fully described in Note T. In April 2024, the Nantahala Note was repaid in full and terminated. At the time of repayment, Nantahala elected to receive a cash payment in lieu of shares of Zevra's common stock in exchange for the additional 3. 0 % interest accrued for the period from March 1, 2024, through April 5, 2024. Margin Account On January 26, 2023, the Company and Wells Fargo, as lender, entered into a revolving margin account agreement. The Company's investments were used as collateral for the loan and the amount the Company was able to borrow was limited to 80-90 % of its outstanding investment balance held with Wells Fargo. The margin account bore interest at the Prime rate minus 225 basis-points. As of December 31, 2023, \$ 37. 7 million was outstanding under the margin account. The margin loan was included in current liabilities as of December 31, 2023, as the Company expected the outstanding balance to be due and payable in 2024 based on the anticipated level of investment balance expected to be available over the course of fiscal year 2024 to meet the Collateral Requirement. In April 2024, the Company repaid the outstanding balance under the margin account with Wells Fargo, and upon such repayment, the margin capabilities were removed from the account. Term Loans On April 5, 2024 (the " Term Loans Closing Date"), the Company entered into a credit agreement (the " Credit Agreement") with HCR Stafford Fund II, L. P., HCR Potomac Fund II, L. P., and Perceptive Credit Holdings IV, LP (collectively, the " Lenders"), and Alter Domus (US) LLC, as administrative agent (the " Administrative Agent"). Under the terms of the Credit Agreement, the Lenders provided a senior secured loan facility to the Company in the aggregate principal amount of \$ 100. 0 million, which is divided into three tranches as follows: (i) \$ 60. 0 million which was funded in full on the Term Loans Closing Date; (ii) \$ 20. 0 million which is available to the Company in up to two drawings, each in an amount not to exceed \$ 10. 0 million, at the Company's option until 18 months following the Term Loans Closing Date; and (iii) \$ 20. 0 million which is available to the Company upon approval by the FDA of the NDA for MIPLYFFA for the treatment of NPC, at the Company's option until December 31, 2024 (collectively, the " Term Loans"). The principal amount of the Term Loans outstanding (the " Outstanding Principal Amount") will bear interest at a rate equal to 3- Month Term SOFR plus 7. 00 % per annum. If the net product sales for the calendar year

ending December 31, 2025, exceed \$ 100. 0 million, the Outstanding Principal Amount will bear interest at 3- Month Term SOFR plus 6. 00 % per annum. If the net product sales for the calendar year ending December 31, 2025, do not exceed \$ 100. 0 million, then for any subsequent period of four consecutive fiscal quarters ending on or after March 31, 2026, in which net product sales exceed \$ 125. 0 million, the Outstanding Principal Amount will bear interest at 3- Month Term SOFR plus 6. 50 % per annum. In all cases, the 3- Month Term SOFR rate will be subject to a floor of 4. 00 % per annum. Interest will be payable quarterly in arrears on the last day of each calendar quarter. The Company has the option to pay up to 25 % of the interest in- kind beginning on the Term Loans Closing Date, through and including June 30, 2026. The Company has recognized approximately \$ 1. 4 million of interest- in- kind as of December 31, 2024, which is included in long- term debt in the consolidated balance sheet. The Term Loans will mature on the fifth anniversary of the Term Loans Closing Date. In connection with the Credit Agreement, the Company incurred approximately \$ 2. 2 million of costs, which primarily consisted of underwriting, legal and other professional fees, and are included as a reduction to the carrying amount of the related debt liability and are deferred and amortized over the remaining life of the financing using the effective interest method. The Credit Agreement contains customary affirmative and negative covenants by the Company, which among other things, will require the Company to provide certain financial reports to the Lenders within 60 days after the end of each of the first three fiscal quarters of each fiscal year and 105 days after the end of each fiscal year, meet certain minimum net product sales amounts, and limit the ability of the Company to incur or guarantee additional indebtedness, engage in certain transactions, and effect a consolidation or merger without consent. In addition, as long as the line of credit remains active, the Company must maintain a minimum cash balance of \$ 20. 0 million to ensure the Company can meet its immediate capital needs. The obligations of the Company under the Credit Agreement may be accelerated upon customary events of default, including non- payment of principal, interest, fees and other amounts, covenant defaults, insolvency, material judgments, or inaccuracy of representations and warranties. The Term Loans are secured by a first priority perfected lien on, and security interest in, substantially all current and future assets of the Company. The proceeds of the Term Loans were used to refinance certain existing indebtedness of the Company and its subsidiaries. The Company will use the remaining proceeds to pay fees and expenses related to the debt financing and fund the development and commercialization of OLPRUVA and MIPLYFFA. Long- term debt consisted of the following (in thousands):

December 31, 2024 December 31, 2023 Notes payable \$ 61, 552 \$ — Secured promissory note — 5, 000 Unamortized original issue (discount) premium (921) 148 Less: debt issuance costs (1, 127) (82) \$ 59, 504 \$ 5, 066 Future minimum principal payments under the secured promissory note as of December 31, 2024, were as follows (in thousands): Year Ending December 31, 2024 December 31, 2024 2025 \$ — 2026 — 2027 — 2028 — 2029 61, 552 Total minimum payments 61, 552 Less: unamortized debt discount and debt issuance costs (2, 048) Long- term debt \$ 59, 504 X- DefinitionThe entire disclosure for information about short- term and long- term debt arrangements, which includes amounts of borrowings under each line of credit, note payable, commercial paper issue, bonds indenture, debenture issue, own- share lending arrangements and any other contractual agreement to repay funds, and about the underlying arrangements, rationale for a classification as long- term, including repayment terms, interest rates, collateral provided, restrictions on use of assets and activities, whether or not in compliance with debt covenants, and other matters important to users of the financial statements, such as the effects of refinancing and noncompliance with debt covenants. Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481544/470-10-50-6](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481544/470-10-50-6)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481544/470-10-50-6](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481544/470-10-50-6)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 405-SubTopic 40-Name Accounting 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https://asc.fasb.org/1943274/2147477092/405-40-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 405-SubTopic 40-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (a) (2)-Publisher FASB-URI https://asc.fasb.org/1943274/2147477092/405-40-50-1)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 405-SubTopic 40-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(a\) \(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147477092/405-40-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 405-SubTopic 40-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (a) (1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147477092/405-40-50-1)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 405-SubTopic 40-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147477092/405-40-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 405-SubTopic 40-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147477092/405-40-50-1)Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1B-Subparagraph \(h\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1B-Subparagraph (h)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 4-08 \(c\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (c))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1)Reference 10: <http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic 470-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org/470-tableOfContent>Reference 11: <http://www.xbrl.org/2003/role/disclosureRef-Topic 835-SubTopic 30-Name Accounting Standards Codification-Section 45-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147482925/835-30-45-2>Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1B-Subparagraph \(i\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 20-Name Accounting Standards 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https://asc.fasb.org/1943274/2147481139/470-20-50-1I](http://www.xbrl.org/2003/role/disclosureRef-Topic 470-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1I-Subparagraph (d)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481139/470-20-50-1I)Details Name: us- gaap_ DebtDisclosureTextBlock Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItem Type Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us- gaap_ DisclosureTextBlockAbstract Namespace Prefix: us- gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationNote J- Revenue, Net 12 Months Ended Dec. 31, 2024 Notes to Financial Statements Revenue from Contract with Customer | Text Block | J. Revenue, net Licensing Agreements AZSTARYS License Agreement The Company entered into a Collaboration and License Agreement (the " AZSTARYS License Agreement ") with Commave Therapeutics SA (formerly known as Boston Pharmaceutical S. A.) (" Commave "), an affiliate of Gurnet Point Capital, L. P., dated September 3, 2019. Under the AZSTARYS License Agreement, as amended, the Company granted to Commave an exclusive, worldwide license to develop, manufacture and commercialize the Company' s product candidates containing SDX and d- MPH, including AZSTARYS, or any other product candidates containing SDX and developed to treat ADHD or any other central nervous system disorder. Corium Inc. was tasked by Commave to lead all commercialization activities for AZSTARYS under the AZSTARYS License Agreement. Pursuant to the AZSTARYS License Agreement, Commave agreed to pay milestone payments up to an aggregate of \$ 590. 0 million upon the occurrence of specified regulatory milestones related to AZSTARYS, additional fixed payments upon the achievement of specified U. S. sales milestones, and quarterly, tiered royalty payments based on a range of percentages of net sales (as defined in the AZSTARYS License Agreement). Commave is obligated to make such royalty payments on a product- by- product basis until expiration of the royalty term for the applicable product. The Company concluded that these regulatory milestones, sales milestones and royalty payments each contain a significant uncertainty associated with a future event. As such, these milestone and royalty payments are constrained at contract inception and are not included in the transaction price as the Company could not conclude that it is probable a significant reversal in the amount of cumulative revenue recognized will not occur surrounding these milestone payments. At the end of each reporting period, the Company updates its assessment of whether the milestone and royalty payments are constrained by considering both the likelihood and magnitude of the potential revenue reversal. For the year ended December 31, 2024, the Company recognized \$ 4. 3 million of revenue under the AZSTARYS License Agreement, respectively, primarily related to royalties. For the year ended December 31, 2023, the Company recognized revenue under the AZSTARYS License Agreement of \$ 18. 5 million, which includes \$ 15. 0 million in net sales milestone payments earned during the year then ended. There was no deferred revenue related to this agreement as of December 31, 2024, and 2023. All revenues recognized under this agreement derived in the United States. In accordance with the terms of the Company' s Termination Agreement with Aqueview Therapeutics (" Aqueview ") dated March 20, 2012, Aqueview has the right to receive an amount equal to 10 % of any royalty or milestone payments made to the Company related to AZSTARYS or KP1077 under the AZSTARYS License Agreement. The AZSTARYS License Agreement is within the scope of ASC 606, as the transaction represents a contract with a customer where the participants function in a customer / vendor relationship and are not exposed equally to the risks and rewards of the activities contemplated under the AZSTARYS License Agreement. Relief Exclusive License Agreement As a condition to entering into the Merger Agreement, Acer and Relief Therapeutics SA (" Relief ") entered into an exclusive license agreement on August 30, 2023 (the " Relief License Agreement "). Pursuant to the Relief License Agreement, Relief will hold exclusive development and commercialization rights for OLPRUVA in the European Union, Liechtenstein, San Marino, Vatican City, Norway, Iceland, Principality of Monaco, Andorra, Gibraltar, Switzerland, United Kingdom, Albania, Bosnia, Kosovo, Montenegro, Serbia and North Macedonia (" Geographical Europe "). The Company will have the right to receive a royalty of up to 10 % of the net sales of OLPRUVA in Geographical Europe. For the year ended December 31, 2024, the Company did not recognize any revenue under the Relief License Agreement. There was no deferred revenue related to this agreement as of December 31, 2024, and 2023. For further discussion of the Relief License Agreement, see Note T. Product Revenues, Net

Expanded Access Program Net revenue includes revenue from the sale of arimocloamol for the treatment of NPC under the remunerated expanded access compassionate use program in France, Accès Compassionnel ("French AC"). An expanded access compassionate use program is a program giving specific patients access to a drug, which is not yet approved for commercial sale. Only drugs targeting serious or rare indications and for which there is currently no appropriate treatment are considered for expanded access compassionate use programs. Further, to be considered for the expanded access compassionate use program, the drug must have proven efficacy and safety and must either be undergoing price negotiations or seeking marketing approval. In accordance with ASC 606, the Company recognizes revenue when fulfilling its performance obligation under the Expanded Access Program ("EAP") by transferring control of promised goods or services to its customer, in an amount that reflects the consideration that the Company expects to receive in exchange for those goods or services. In determining when the customer obtains control of the product, the Company considers certain indicators, including whether the Company has a present right to payment from the customer, whether title and / or significant risks and rewards of ownership have transferred to the customer and whether the customer acceptance has been received. Revenue is recognized net of sales deductions, including discounts, rebates, applicable distributor fees, and revenue-based taxes. The French Health Authorities and the manufacturer have agreed to a price for sales under the French AC, but the final transaction price depends on the terms and conditions in the contracts with the French Health Authorities and is subject to price negotiations with the French Health Authorities following market approval. Any excess in the price charged the manufacturer compared to the price agreed with the health authorities once the drug product is approved in France must be repaid. The repayment is considered in the clawback liability (rebate). An estimate of net revenue and clawback liability are recognized using the 'expected value' method. Accounting for net revenue and clawback liability requires determination of the most appropriate method for the expected final transaction price. This estimate also requires assumptions with respect to inputs into the method, including current pricing of comparable marketed products within the rare disease area in France. Management has considered the expected final sales price as well as the price of similar drug products. The Company is operating within a rare disease therapeutic area where there is unmet treatment need and hence a limited number of comparable commercialized drugs products. The limited available relevant market information for directly comparable commercialized drugs within rare disease increases the uncertainty in management's estimate. For the years ended December 31, 2024, and 2023, the Company recognized revenue related to the EAP in France of \$ 9.1 million and \$ 8.7 million, respectively, which is net of a clawback liability of \$ 5.7 million and \$ 5.1 million, respectively, and other gross to net adjustments. The total estimated reserve liability as of December 31, 2024, and 2023 was \$ 12.6 million and \$ 12.2 million, respectively. As of December 31, 2024, and 2023, this estimated reserve liability is recorded as discount and rebate liabilities in the consolidated balance sheets and is separated into current and long-term based upon the timing of the expected payment to the French regulators. Product Sales On December 27, 2022, the FDA approved OLPRUVA (sodium phenylbutyrate), a prescription medicine used along with certain therapy, including changes in diet, for the long-term management of adults and children with UCIDs weighing 44 pounds (20 kg) or greater and with a body surface area of 1.2m² or greater. On November 17, 2023, the Company acquired OLPRUVA in connection with the Merger (Note T). For the year ended December 31, 2024, sales of OLPRUVA were \$ 0.1 million. For the year ended December 31, 2023, there were no sales of OLPRUVA. On September 20, 2024, the NDA for MIPLYFFA, an orally-delivered treatment for NPC, which is an ultra-rare and progressive neurodegenerative disease, was approved. For the year ended December 31, 2024, net sales of MIPLYFFA were \$ 10.1 million. The Company currently utilizes a single specialty pharmacy provider as its sole distributor for both OLPRUVA and MIPLYFFA. The Company also enters into arrangements with health care providers and payors that provide for government mandated and / or privately negotiated rebates with respect to the purchase of its products. To commercialize OLPRUVA for oral suspension and MIPLYFFA in the U.S., the Company has built marketing, sales, medical affairs, distribution, managerial and other non-technical capabilities or is making arrangements with third parties to perform these services. All revenues derived from sales of OLPRUVA and MIPLYFFA are in the United States. X- ReferencesNo definition available. Details Name: us-gaap_DisclosureTextBlockAbstract Namespace Prefix: us-gaap_Data Type: xbrl:stringItemType Balance Type: na Period Type: durationX- DefinitionThe entire disclosure of revenue from contract with customer to transfer good or service and to transfer nonfinancial asset. Includes, but is not limited to, disaggregation of revenue, credit loss recognized from contract with customer, judgment and change in judgment related to contract with customer, and asset recognized from cost incurred to obtain or fulfill contract with customer. Excludes insurance and lease contracts. 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Topic 440- Name Accounting Standards Codification- Publisher FASB- URI <https://asc.fasb.org/440/tableOfContent> Details Name: us-gaap_CommitmentsAndContingenciesDisclosureTextBlock Namespace Prefix: us-gaap_Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us-gaap_DisclosureTextBlockAbstract Namespace Prefix: us-gaap_Data Type: xbrli: stringItemType Balance Type: na Period Type: durationNote L- Stock and Warrants 12 Months Ended Dec. 31, 2024 Notes to Financial Statements Equity [Text Block] L. Stock and Warrants Authorized, Issued, and Outstanding Common Shares As of December 31, 2024, and 2023, the Company had authorized shares of common stock of 250,000,000 shares. Of the authorized shares, 55,246,401 and 43,110,360 shares of common stock were issued as of December 31, 2024, and 2023, respectively, and 53,670,709 and 41,534,668 shares of common stock were outstanding as of December 31, 2024, and 2023, respectively. As of December 31, 2024, and 2023, the Company had reserved authorized shares of common stock for future issuance as follows: December 31, 2024 2023 Outstanding awards under equity incentive plans 7,789,658 8,023,142 Outstanding common stock warrants 5,483,537 5,603,729 Possible future issuances under equity incentive plans 5,383,165 1,728,885 Possible future issuances under employee stock purchase plan 1,148,012 1,340,172 Total common shares reserved for future issuance 19,804,372 16,695,928 Common Stock Activity The following table summarizes common stock activity for the years ended December 31, 2024 and 2023: Shares of Common Stock Balance as of January 1, 2023 34,540,304 Common stock issued as compensation to third-parties 44,791 Common stock issued as a result of stock warrants exercised 110 Common stock issued as a result of stock options exercised 7,500 Common stock repurchased as a result of the Stock Repurchase Program (665,739) Common stock issued in connection with the Merger (Note T) 7,530,509 Common stock issued as a result of the Employee Stock Purchase Plan 77,193 Balance as of December 31, 2023 41,534,668 Common stock issued in connection with the Public Offering (Note B) 10,615,385 Common stock issued in connection with restricted stock units 218,000 Common stock issued as compensation to third-parties 92,988 Common stock issued in connection with vesting of performance-based awards 547,945 Common stock issued as a result of stock options exercised 469,563 Common stock issued as a result of the Employee Stock Purchase Plan 192,160 Balance as of December 31, 2024 53,670,709 Authorized, Issued, and Outstanding Preferred Stock As of December 31, 2024, and 2023, the Company had 10,000,000 shares of authorized, unallocated and unissued preferred stock. As of December 31, 2024, and 2023, no shares of preferred stock were designated, issued or outstanding. Warrants to Purchase Common Stock The Company has issued warrants to purchase common stock to various third parties, of which 5,483,537 remain outstanding as of December 31, 2024, and are immediately exercisable. These warrants qualify as participating securities under ASC Topic 260, Earnings per Share, and are treated as such in the net loss per share calculation (Note P). The Company may be required to redeem these warrants for a cash amount equal to the Black-Scholes value of the portion of the warrants to be redeemed (the "Put Option"). In connection with the Merger (Note T), in November 2023, the Company directly issued to certain investors an aggregate of 1,382,489 shares of its common stock, par value \$ 0.0001 per share, and accompanying warrants to purchase up to 1,382,489 shares of its common stock (the "2023 Warrants") at a combined offering price of \$ 4.34 per share of common stock and the Warrants and an aggregate of 917,934 shares of its common stock in exchange for the cancellation of a warrant to purchase 2,920,306 shares of common stock of Acer. The Warrants are immediately exercisable and expire on November 22, 2028. The Company used the net proceeds of approximately \$ 6.0 million from the offering for general corporate purposes. These warrants are separately exercisable by the warrant holders. While the warrants are outstanding (but unexercised), the warrant holders will participate in any dividend or other distribution of the Company's assets to its common stockholders by way of return of capital or otherwise. As of December 31, 2024, and December 31, 2023, none of the warrants have been exercised. The warrants have been evaluated to determine the appropriate accounting and classification pursuant to ASC 480 and ASC 815. Generally, freestanding warrants should be classified as (i) liabilities if the warrant terms allow settlement of the warrant exercise in cash and (ii) equity if the warrant terms only allow settlement in shares of common stock. The Company determined that its outstanding warrants and the Put Option should be recorded as a liability and stated at fair value at each reporting period. Changes to the fair value of the warrant liability are recorded through the consolidated statements of operations as a fair value adjustment related to warrant and CVR liability. As of December 31, 2024, and December 31, 2023, the fair value of the liability associated with these warrants and the Put Option was approximately \$ 17.8 million and \$ 16.1 million, respectively. The fair value adjustment related to these warrants and the Put Option was approximately \$ 1.7 million of loss and (\$ 1.4) million of income for the years ended December 31, 2024, and 2023, respectively. X- ReferencesNo definition available. Details Name: us-gaap_DisclosureTextBlockAbstract Namespace Prefix: us-gaap_Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionThe entire disclosure for equity. 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<http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic 505-Name Accounting Standards Codification-Publisher FASB-URI https://asc.fasb.org/505/tableOfContent>Reference 11: <http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 13-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-13>Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 13-Subparagraph \(g\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-13](http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 13-Subparagraph (g)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-13)Reference 13: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 13-Subparagraph \(i\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-13](http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 13-Subparagraph (i)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-13)Reference 14: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 14-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-14](http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 14-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-14)Reference 15: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 14-Subparagraph \(c\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-14](http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 14-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-14)Reference 16: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 16-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-16](http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 16-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-16)Reference 17: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 18-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-18](http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 18-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-18)Reference 18: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 18-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-18](http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 18-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-18)Reference 19: [http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 18-Subparagraph \(d\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-18](http://www.xbrl.org/2003/role/disclosureRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 18-Subparagraph (d)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-18)Details Name: us-gaap_StockholdersEquityNoteDisclosureTextBlock Namespace Prefix: us-gaap_Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationNote M- Stock-based Compensation 12 Months Ended Dec. 31, 2024 Notes to Financial Statements Share-Based Payment Arrangement [Text Block] M. Stock-Based Compensation The Company maintains a stock-based compensation plan (the "Incentive Stock Plan") that governs stock awards made to employees and directors prior to completion of the IPO. In November 2014, the Board of Directors of the Company ("the Board"), and in April 2015, the Company's stockholders, approved the Company's 2014 Equity Incentive Plan (the "2014 Plan"), which became effective in April 2015. The 2014 Plan provides for the grant of stock options, other forms of equity compensation, and performance cash awards. In June 2021, the Company's stockholders approved an Amended and Restated 2014 Equity Incentive Plan (the "A & R 2014 Plan"), following its adoption by the Board in April 2021, which among other things added 4,900,000 shares to the maximum number of shares of common stock to be issued under the plan and extended the annual automatic increases (discussed further below) until January 1, 2031 and eliminated individual grant limits that applied under the 2014 Plan to awards that were intended to comply with the exemption for "performance-based compensation" under Code Section 162(m). The maximum number of shares of common stock that may be issued under the A & R 2014 Plan was 9,932,883 as of December 31, 2024. The number of shares of common stock reserved for issuance under the A & R 2014 Plan will automatically increase on January 1 of each year, beginning on January 1, 2016, and ending on and including January 1, 2031, by 4% of the total number of shares of the Company's capital stock outstanding on December 31 of the preceding calendar year, or a lesser number of shares determined by the Board. Pursuant to the terms of the A & R 2014 Plan, on January 1, 2025, the common stock reserved for issuance under the A & R 2014 Plan automatically increased by 2,146,828 shares. During the years ended December 31, 2024, and 2023, 1,177,545 and 7,500 stock options were exercised, respectively. In January 2023, the Board approved the 2023 Employment Inducement Award Plan (as amended, the "2023 Plan"). The maximum number of shares of common stock that may be issued under the 2023 Plan is 4,500,000 as of December 31, 2024. Stock-based compensation expense recorded under the Incentive Stock Plan, A & R 2014 Plan, and 2023 Plan is included in the following line items in the accompanying consolidated statements of operations (in thousands): Year ended December 31, 2024 2023 Research and development \$ 5,819 \$ 2,664 General and administrative \$ 9,087 \$ 2,90 Total stock-based compensation expense \$ 14,906 \$ 5,554 There was \$ 2.5 million of stock-based compensation expense related to performance-based awards recognized during the year ended December 31, 2024. There was no stock-based compensation expense related to performance-based awards recognized during the year ended December 31, 2023. As a result of transition agreements entered into with certain former employees, the vesting for certain stock options was accelerated, resulting in a net increase in stock-based compensation expense of \$ 2.4 million for the year ended December 31, 2024. The effects of this accelerated vesting are reflected in the table above within research

and development expenses. As a result of transition agreements entered into with certain former employees, certain stock options were modified, resulting in a net decrease in stock-based compensation expense of \$ 1.2 million for the year ended December 31, 2023. The effects of those modifications are reflected in the table above within selling, general, and administrative expenses. In June 2021, the Company's stockholders approved an Employee Stock Purchase Plan (the "ESPP"), following its adoption by the Board in April 2021. The maximum number of shares of common stock that may be issued under the ESPP is 1,500,000. The first offering period under the ESPP began on October 1, 2021, and the first purchase date occurred on May 31, 2022. As of December 31, 2024, 351,988 shares have been issued under the ESPP.

Stock Option Awards The Company estimates the fair value of stock options using the Black-Scholes option-pricing model, which requires the use of subjective assumptions, including the expected term of the option, the expected stock price volatility, expected dividend yield and the risk-free interest rate for the expected term of the option. The expected term represents the period of time the stock options are expected to be outstanding. Due to the lack of sufficient historical exercise data to provide a reasonable basis upon which to otherwise estimate the expected term of the stock options, the Company uses the simplified method to estimate the expected term for its "plain vanilla" stock options. Under the simplified method, the expected term of an option is presumed to be the mid-point between the vesting date and the end of the contractual term. Some options, for example those that have exercise prices in excess of the fair value of the underlying stock, are not considered "plain vanilla" stock options. For these options, the Company uses an expected term equal to the contractual term of the option. Expected volatility is based on the Company's historical volatility over the estimated expected term of the stock options. The Company assumes no dividend yield because dividends are not expected to be paid in the near future, which is consistent with the Company's history of not paying dividends. The Company recognizes compensation expense related to stock-based payment transactions upon satisfaction of the requisite service or vesting requirements. Forfeitures are estimated at the time of grant and revised based on actual forfeitures, if necessary, in subsequent periods if actual forfeitures differ from those estimates. Using the Black-Scholes option-pricing model, the weighted-average fair value of awards granted during the years ended December 31, 2024, and 2023, fair value was \$ 5.74 and \$ 3.65 per share, respectively. The assumptions used to estimate fair value are as follows: Year Ended December 31, 2024 2023 Risk-free interest rate 3.82 % - 4.50 % - 4.79 % Expected term (in years) 5.50 - 6.25 5.50 - 10.00 Expected volatility 89.85 % - 91.32 % 89.48 % - 93.67 % Expected dividend yield 0.0 The activity under the Incentive Stock Plan, A & R 2014 Plan, and 2023 Plan for the year ended December 31, 2024, is summarized as follows: Weighted Avg Aggregate Number of Average Remaining Intrinsic Options Exercise Price Contractual Term Value Outstanding balance at January 1, 2024 7,275,197 \$ 8.40 8.68 \$ 11,089 Granted 962,700 \$ 5.74 Exercised or released 1,162,705 \$ 5.30 \$ 1,966 Canceled or forfeited 314,250 \$ 4.90 Expired 809,542 \$ 22.52 Outstanding balance at December 31, 2024 5,951,400 \$ 7.25 6.79 \$ 17,448 Exercisable at December 31, 2024 2,399,305 \$ 10.25 4.47 \$ 6,302 Vested and expected to vest at December 31, 2024 5,764,166 \$ 6.75 \$ 16,783 Information regarding currently outstanding and exercisable options as of December 31, 2024, is as follows: Options Outstanding Options Exercisable Weighted Avg Weighted Avg Number of Remaining Number of Remaining Exercise Price Shares Contractual Term Shares Contractual Term \$ 2.848 to \$ 10.00 5,841,257 6.91 2,289,162 6.69 \$ 10.01 to \$ 30.00 1,875 4.31, 1,875 4.37 \$ 30.01 to \$ 50.00 39,218 2.67 39,218 2.71 \$ 50.01 to \$ 70.00 21,958 1.60 21,958 1.63 \$ 70.01 to \$ 327.00 47,092 1.36 47,092 1.34 \$ 5,951,400 2,399,305 The total fair value of stock options vested during the years ended December 31, 2024 and 2023, was \$ 8.1 million and \$ 9.2 million, respectively. Unvested stock options as of December 31, 2024 and 2023, were as follows: Number of Unvested Shares December 31, Exercise Price 2024 2023 \$ 2.848 to \$ 10.00 3,552,095 5,614,977 Total number of unvested stock options 3,552,095 5,614,977 As of December 31, 2024 there was \$ 9.5 million of total unrecognized compensation cost related to unvested share-based compensation arrangements granted under the A & R 2014 Plan and 2023 Plan. Restricted stock units The following table summarizes the restricted stock unit activity under the A & R 2014 and 2023 Plan: Shares Weighted-average grant date fair value Unvested balance at December 31, 2023 747,945 \$ 4.33 Granted 2,012,958 \$ 5.52 Vested 765,945 4.77 Forfeited 156,700 5.83 Unvested balance at December 31, 2024 1,838,258 \$ 5.32 As of December 31, 2024 there was \$ 7.1 million of total unrecognized compensation cost related to restricted stock units. X- Definition The entire disclosure for share-based payment arrangement. References Reference 1: [http://www.xbrl.org/2003/role/exampleRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(1\)-PublisherFASB-URIhttps://asc.fash.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/exampleRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(1)-PublisherFASB-URIhttps://asc.fash.org/1943274/2147480429/718-10-50-2) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic718-NameAccountingStandardsCodification-PublisherFASB-URIhttps://asc.fash.org/718/tableOfContentReference3:https://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fash.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic718-NameAccountingStandardsCodification-PublisherFASB-URIhttps://asc.fash.org/718/tableOfContentReference3:https://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)-PublisherFASB-URIhttps://asc.fash.org/1943274/2147480429/718-10-50-2) Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(h\)\(2\)-PublisherFASB-URIhttps://asc.fash.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(h)(2)-PublisherFASB-URIhttps://asc.fash.org/1943274/2147480429/718-10-50-2) Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(h\)\(2\)\(i\)-PublisherFASB-URIhttps://asc.fash.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(h)(2)(i)-PublisherFASB-URIhttps://asc.fash.org/1943274/2147480429/718-10-50-2) Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(i\)-PublisherFASB-URIhttps://asc.fash.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(i)-PublisherFASB-URIhttps://asc.fash.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock Namespace Prefix: us-gaap_Data Type: dtr-type: textBlock Item Type Balance Type: na Period Type: duration X- References No definition available. Details Name: us-gaap_DisclosureTextBlock Abstract Namespace Prefix: us-gaap_Data Type: xbrli: stringItem Type Balance Type: na Period Type: duration Note N- Fair Value of Financial Instruments 12 Months Ended Dec. 31, 2024 Notes to Financial Statements Fair Value Disclosures [Text Block] N. Fair Value of Financial Instruments The accounting standard for fair value measurements provides a framework for measuring fair value and requires disclosures regarding fair value measurements. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date, based on the Company's principal or, in absence of a principal, most advantageous market for the specific asset or liability. The Company uses a three-tier fair value hierarchy to classify and disclose all assets and liabilities measured at fair value on a recurring basis, as well as assets and liabilities measured at fair value on a non-recurring basis, in periods subsequent to their initial measurement. The hierarchy requires the Company to use observable inputs when available, and to minimize the use of unobservable inputs, when determining fair value. The three tiers are defined as follows: • Level 1 — Observable inputs that reflect quoted market prices (unadjusted) for identical assets or liabilities in active markets; • Level 2 — Observable inputs other than quoted prices in active markets that are observable either directly or indirectly in the marketplace for identical or similar assets and liabilities; and • Level 3 — Unobservable inputs that are supported by little or no market data, which require the Company to develop its own assumptions. The carrying amounts of certain financial instruments, including cash and cash equivalents, accounts and other receivables, accounts payable and accrued expenses, the Nantahala Note, and the margin account approximate their respective fair values due to the short-term nature of such instruments. Assets and Liabilities Measured at Fair Value on a Recurring Basis The Company evaluates its financial assets and liabilities subject to fair value measurements on a recurring basis to determine the appropriate level in which to classify them for each reporting period. This determination requires significant judgments to be made. The following table summarizes the conclusions reached regarding fair value measurements as of December 31, 2024, and 2023 (in thousands): Quoted Prices Significant in Active Other Significant Balance at Markets for Observable Unobservable December 31, Identical Assets Inputs 2024 (Level 1) (Level 2) (Level 3) CVR liability (Note T) \$ 3,500 \$ - \$ - \$ 3,500 Warrant liabilities 17,804 17,804 Total liabilities \$ 21,304 \$ - \$ - \$ 21,304 Securities: U. S. Treasury securities \$ 35,711 \$ 35,711 \$ - \$ - Corporate bonds 6,010 6,010 Total assets \$ 41,721 \$ 35,711 \$ 6,010 \$ - Quoted Prices Significant in Active Other Significant Balance at Markets for Observable Unobservable December 31, Identical Assets Inputs 2023 (Level 1) (Level 2) (Level 3) CVR liability (Note T) \$ 7,262 \$ - \$ - \$ 7,262 Warrant liabilities 16,100 16,100 Total liabilities \$ 23,362 \$ - \$ - \$ 23,362 Securities: U. S. Treasury securities \$ 24,688 \$ 24,688 \$ - \$ - Total assets \$ 24,688 \$ 24,688 \$ - \$ - The common stock warrant liabilities were recorded at fair value using the Black-Scholes option pricing model. The following assumptions were used in determining the fair value of the warrant liabilities valued using the Black-Scholes option pricing model as of December 31, 2024, and 2023: December 31, 2024 December 31, 2023 Risk-free interest rate 4.08 % - 4.23 % 3.76 % - 4.12 % Volatility 62.14 % - 68.68 % 62.01 % - 92.42 % Dividend yield — % — % Expected term (years) 1.02 - 3.89 2.0 - 4.9 Weighted average fair value \$ 3.25 \$ 2.94 The following table is a reconciliation for the common stock warrant liabilities measured at fair value using Level 3 unobservable inputs (in thousands): Balance at December 31, 2023 \$ 16,100 Change in fair value measurement 1,704 Balance at December 31, 2024 \$ 17,804 For the year ended December 31, 2024, the changes in fair value of the warrant liabilities primarily resulted from the volatility of the Company's common stock and the change in the risk-free interest rates. X- References No definition available. Details Name: us-gaap_DisclosureTextBlock Abstract Namespace Prefix: us-gaap_Data Type: xbrli: stringItem Type Balance Type: na Period Type: duration X- Definition The entire disclosure for the fair value of financial instruments (as defined), including financial assets and financial liabilities (collectively, as defined), and the measurements of those instruments as well as disclosures related to the fair value of non-financial assets and liabilities. Such disclosures about the financial instruments, assets, and liabilities would include: (1) the fair value of the required items together with their carrying amounts (as appropriate); (2) for items for which it is not practicable to estimate fair value, disclosure would include: (a) information pertinent to estimating fair value (including, carrying amount, effective interest rate, and maturity, and (b) the reasons why it is not practicable to estimate fair value; (3) significant concentrations of credit risk including: (a) information about the activity, region, or economic characteristics identifying a concentration, (b) the maximum amount of loss the entity is exposed to based on the gross fair value of the related item, (c) policy for requiring collateral or other security and information as to accessing such collateral or security, and (d) the nature and brief description of such collateral or security; (4) quantitative information about market risks and how such risks are managed; (5) for items measured on both a recurring and nonrecurring basis information regarding the inputs used to develop the fair value measurement; and (6) for items presented in the financial statement for which fair value measurement is elected: (a) information necessary to understand the reasons for the election, (b) discussion of the effect of fair value changes on earnings, (c) a description of [similar groups] items for which the election is made and the relation thereof to the balance sheet, the aggregate carrying value of items included in the balance sheet that are not eligible for the election; (7) all other required (as defined) and desired information. References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph107-PublisherFASB-URIhttps://asc.fash.org/1943274/2147482078/820-10-55-107> Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph100-PublisherFASB-URIhttps://asc.fash.org/1943274/2147482078/820-10-55-100> Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(c\)\(3\)-PublisherFASB-URIhttps://asc.fash.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(c)(3)-PublisherFASB-URIhttps://asc.fash.org/1943274/2147482106/820-10-50-2) Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph6A-Subparagraph\(a\)-](http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph6A-Subparagraph(a)-)

Publisher FASB- URI <https://asc.fasb.org/1943274/2147482106/820-10-50-6AReference5>: <http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2E-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2EReference6>: [http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph6A-Subparagraph\(h\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-6AReference7](http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph6A-Subparagraph(h)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-6AReference7): [http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph6A-Subparagraph\(f\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-6AReference8](http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph6A-Subparagraph(f)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-6AReference8): [http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph6A-Subparagraph\(e\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-6AReference9](http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph6A-Subparagraph(e)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-6AReference9): [http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph6A-Subparagraph\(d\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-6AReference10](http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph6A-Subparagraph(d)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-6AReference10): [http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(h\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2EReference11](http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(h)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2EReference11): [http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(g\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2EReference12](http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(g)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2EReference12): [http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph12-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-12Reference2](http://www.xbrl.org/2003/role/disclosureRef-Topic940-SubTopic820-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478119/940-820-50-1DetailsName:us-gaap_FairValueDisclosuresTextBlockNamespacePrefix:us-gaap_DataType:dtr-types:textBlockItemTypeBalanceType:naPeriodType:durationNoteO-IncomeTaxes12MonthsEndedDec.31,2024NotesToFinancialStatementsIncomeTaxDisclosure[TextBlock]O.IncomeTaxesTheCompanydidnotrecognizeanystate tax expense during the years ended December 31, 2024, and 2023. A reconciliation of the difference between the (expense) / benefit for income taxes at the statutory U. S. federal income tax rate is as follows (in thousands, except amounts pertaining to rate which are shown as a percentage): Year ended December 31, 2024 2023 Federal statutory rate 21.00 % 21.00 % Effect of: Foreign rate differential 0.04- Change in valuation allowance (13.17) (23.29) Return to provision and deferred true- up (4.40) (2.41) Federal research and development credit 4.09 Change in rate- (0.01) State tax benefit (net of federal) 5.05 5.19 Stock- based compensation (0.55) (0.20) Global intangible low- taxed income credit (0.02) (3.41) Officers compensation (0.23)- Expiration of net operating loss deferred tax asset (3.01)- Deferred adjustment and rate change (4.27)- Foreign research and development excess benefit- (0.86) Uncertain tax position (17.88)- Other 0.39 (0.10) Federal income tax provision effective rate (17.05) % 0.00 % The components of deferred tax assets and liabilities are as follows (in thousands): December 31, 2024 2023 Deferred tax assets relating to: Net operating loss carryforwards $ 100,552 $ 90,743 Research and development tax carryforward 19,153 20,670 Stock- based compensation 5,711 5,154 174 expenses 33,941 30,241 Right- of- use liability 108,265 Property and equipment 79,233 Other deferred tax assets 3,652 1,951 Total gross deferred tax assets 163,196 149,047 Deferred tax liabilities relating to: Right- of- use asset 82,249 Intangibles 17,859 14,473 Total gross deferred tax liabilities 17,941 14,722 Deferred tax assets less liabilities 145,256 134,324 Valuation allowance (146,359) (134,488) Net deferred tax liability $ (1,103) $ (164) In assessing the realizability of deferred tax assets, management considers whether it is more likely than not that some portion or all of the deferred tax assets will not be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which those temporary differences become deductible. Management considers the scheduled reversal of deferred tax liabilities, projected future taxable income and tax planning strategies in making this assessment. Based upon the level of historical taxable income (losses) and projections for future taxable income (losses) over the periods in which the deferred tax assets are deductible, management believes it is more likely than not that the Company will not realize the benefits of these deductible differences in the future. The Company recorded refundable research and development tax credit as other income and not income tax under ASC 740 in the consolidated statement of operations for the year ended December 31, 2023. These refundable tax credits are a result of increased qualified research and development spending in certain jurisdictions which allow for a refundable credit even when the Company has no current period income tax expense. The Company has analyzed their tax positions under the principles of ASC 740- 10, Accounting for Uncertainty in Income Taxes. In accordance with the Tax Cuts and Jobs Act of 2017, the Company evaluated its plans for reinvestment or repatriation of current and future earnings of foreign operations and determined to indefinitely reinvest current and future earnings of foreign operations in the foreign operation. The Company has not repatriated funds to the U. S. to satisfy domestic liquidity needs, nor does the Company anticipate the need to do so. If in the foreseeable future, the Company can no longer demonstrate that these earnings are indefinitely reinvested, a deferred tax liability will be recognized. The Company has federal operating loss carryforwards totaling $ 381.3 million, $ 118.5 million of which, if not utilized, will begin to expire in 2027 and $ 262.8 million of which have no expiration date. The Company also has certain state net operating loss carryforwards totaling $ 428.6 million, which, if not utilized, will begin to expire in 2027. The Company also has Denmark net operating loss carryforwards totaling $ 7.7 million which has indefinite carryforward period in Denmark. Due to potential ownership changes that may have occurred or would occur in the future, Internal Revenue Code Section 382 may place additional limitations on the Company's ability to utilize the net operating loss carryforward. X- ReferencesNo definition available. Details Name: us- gaap_DisclosureTextBlockAbstract Namespace Prefix: us- gaap_DataType: xbrli:stringItemTypeBalanceType: naPeriodType: durationX- DefinitionThe entire disclosure for income tax. ReferencesReference 1: <a href=): <http://www.xbrl.org/2003/role/exampleRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph231-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482663/740-10-55-231Reference3>: <http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph12C-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-12CReference4>: <http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph12B-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-12BReference5>: [http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477891/740-270-50-1Reference6](http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic270-NameAccountingStandardsCodification-Section50-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477891/740-270-50-1Reference6): [http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SABTopic6.I.5.Q1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference7](http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SABTopic6.I.5.Q1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference7): [http://www.xbrl.org/2003/role/disclosureRef-Topic235-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.4-08\(h\)\(2\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference9](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph13-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480990/946-20-50-13Reference8): [http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph14-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-14Reference11](http://www.xbrl.org/2003/role/disclosureRef-Topic740-NameAccountingStandardsCodification-PublisherFASB-URIhttps://asc.fasb.org/740/tableOfContentReference10): [http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph17-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-17Reference13](http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph21-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-21Reference12): [http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482603/740-30-50-2DetailsName:us-gaap_IncomeTaxDisclosureTextBlockNamespacePrefix:us-gaap_DataType:dtr-types:textBlockItemTypeBalanceType:naPeriodType:durationNoteP-NetLossPerShare12MonthsEndedDec.31,2024NotesToFinancialStatementsEarningsPerShare\[TextBlock\]P.NetLossPerShareFor all periods presented herein, the Company did not use the two- class method to compute net loss attributable to common stockholders per share of common stock, even though it had issued securities, other than common stock, that contractually entitled the holders to participate in dividends and earnings, because these holders are not obligated to participate in a loss. The two- class method requires earnings for the period to be allocated between common stock and participating securities based upon their respective rights to receive distributed and undistributed earnings. Under the two- class method, for periods with net income attributable to common stockholders, basic net income attributable to common stockholders per share of common stock is computed by dividing the undistributed net income attributable to common stockholders by the weighted average number of shares of common stock outstanding during the period. Undistributed net income attributable to common stockholders is computed by subtracting from net income the portion of current period earnings that participating securities would have been entitled to receive pursuant to their dividend rights had all of the period's earnings been distributed and subtracting the actual or deemed dividends declared. No such adjustment to earnings is made during periods with a net loss as the holders of the participating securities have no obligation to fund losses. Diluted net income attributable to common stockholders per share of common stock is computed under the two- class method by using the weighted average number of shares of common stock outstanding plus the potential dilutive effects of stock options and warrants. In addition to analyzing under the two class method, the Company analyzes the potential dilutive effect of stock options and warrants, under the treasury- stock method when calculating diluted income \(loss\) attributable to common stockholders per share of common stock, in which it is assumed that the stock options and warrants convert into common stock at the beginning of the period or date of issuance, if the stock option or warrant was issued during the period. The Company reports the more dilutive of the approaches \(two- class or treasury- stock / if- converted\) as its diluted net income \(loss\) attributable to common stockholders per share of common stock during the period. As noted above, for all periods presented herein, the Company did not utilize the two- class approach as the Company was in a net loss position and the holders of the participating securities have no obligation to fund losses. The Company did analyze diluted net loss attributable to common stockholders per share of common stock under the treasury- stock / if- converted method and noted that all outstanding stock options and warrants were anti- dilutive for the periods presented. For all periods presented, basic net loss attributable to common stockholders per share of common stock was the same as diluted net loss attributable to common stockholders per share of common stock. The following securities, presented on a common stock equivalent basis, have been excluded from the calculation of weighted average number of shares of common stock outstanding because their effect is anti- dilutive: December 31, 2024 2023 Awards under equity incentive plans 1,148,012 1,728,885 Common stock warrants 5,483,537 5,603,729 Total securities excluded from the calculation of weighted average number of shares of common stock outstanding 6,631,549 7,332,614 A reconciliation from net loss to basic net loss attributable](http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SABTopic11.C)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479360/740-10-S99-2Reference14)

to common stockholders per share of common stock and diluted net loss attributable to common stockholders per share of common stock for the years ended December 31, 2024, and 2023, is as follows (in thousands): December 31, 2024 2023 Basic and diluted net loss per share of common stock: Net loss, basic and diluted \$ (105, 511) \$ (46, 049) Weighted average number of shares of common stock outstanding, basic and diluted 46, 251 35, 452 Basic and diluted net loss per share of common stock \$ (2. 28) \$ (1. 30) X- ReferencesNo definition available. Details Name: us- gaap_DisclosureTextBlockAbstract Namespace Prefix: us- gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionThe entire disclosure for earnings per share. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic260-NameAccountingStandardsCodification-PublisherFASB-URIhttps://asc.fasb.org/260/tableOfContentReference3:http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-2>Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-3> Details Name: us- gaap_EarningsPerShareTextBlock Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationNote Q- Leases 12 Months Ended Dec. 31, 2024 Notes to Financial Statements Lease Disclosure | Text Block | Q. Leases The Company has operating and finance leases for office space, laboratory facilities and various laboratory equipment, furniture and office equipment and leasehold improvements. The Company determines if an arrangement is a lease at contract inception. Lease assets and lease liabilities are recognized based on the present value of lease payments over the lease term at the commencement date. The Company does not separate lease and non- lease components. Leases with a term of 12 months or less at commencement are not recorded on the consolidated balance sheets. Lease expense for these arrangements is recognized on a straight- line bases over the lease term. The Company's leases have remaining lease terms of less than 1 year to approximately 4 years, some of which include options to extend the leases for up to 5 years, and some which include options to terminate the leases within 1 year. Effective June 1, 2021, the Company agreed to sublease office space in Florida, comprised of one of the two contiguous suites, under a non- cancelable operating lease, which expires in February 2026. The components of lease expense were as follows (in thousands): Year Ended December 31, Lease Cost 2024 2023 Finance lease cost: Amortization of right- of- use assets \$ 44 \$ 102 Interest on lease liabilities-- Total finance lease cost 44 102 Operating lease cost 330 437 Short- term lease cost 177 171 Variable lease cost 39 40 Less: sublease income (128) (157) Total lease costs \$ 462 \$ 593 Supplemental cash flow information related to leases was as follows (in thousands): Year Ended December 31, 2024 2023 Cash paid for amounts included in the measurement of lease liabilities: Financing cash flows from finance leases- 5 Operating cash flows from operating leases 405 552 Operating cash flows from short- term leases 225 171 Operating cash flows from variable lease costs 39 40 Right- of- use assets obtained in exchange for lease liabilities: Finance leases \$- \$- Operating leases 419- Supplemental balance sheet information related to leases was as follows (in thousands, except weighted average remaining lease term and weighted average discount rate): December 31, 2024 2023 Finance Leases Property and equipment, at cost \$ 1, 031 \$ 1, 031 less: accumulated depreciation and amortization (1, 023) (882) Property and equipment, net \$ 8 \$ 149 Operating Leases Operating lease right- of- use assets \$ 657 \$ 790 Total operating lease right- of- use assets \$ 657 \$ 790 Current portion of operating lease liabilities \$ 420 \$ 543 Operating lease liabilities, less current portion 372 456 Total operating lease liabilities \$ 792 \$ 999 Weighted Average Remaining Lease Term Operating leases (in years) 3 2 Weighted Average Discount Rate Finance leases- 14. 3 % Operating leases 9. 9 % 7. 6 % Maturities on lease liabilities were as follows (in thousands): Operating Year Ending December 31, Leases 2025 \$ 481 2026 138 2027 127 2028 150 2029 38 Thereafter 10 Total lease payments 944 Less: future interest expense (152) Lease liabilities \$ 792 X- ReferencesNo definition available. Details Name: us- gaap_DisclosureTextBlockAbstract Namespace Prefix: us- gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionThe entire disclosure for operating, finance, sale leaseback leases. ReferencesNo definition available. Details Name: zvrz_LeaseDisclosureTextBlock Namespace Prefix: zvrz_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationNote R- Employee Benefit Plan 12 Months Ended Dec. 31, 2024 Notes to Financial Statements Compensation and Employee Benefit Plans | Text Block | R. Employee Benefit Plan The Company has a 401 (k) retirement plan (the " 401 (k) Plan ") that covers substantially all employees. The Company may provide a discretionary match with a maximum amount of 4 % of the participant's compensation, which vests immediately. The Company made matching contributions under the 401 (k) Plan of approximately \$ 0. 5 million and \$ 0. 3 million for the years ended December 31, 2024, and 2023, respectively. The Company has a discretionary profit- sharing plan (the " Profit Sharing Plan ") that covers all employees. Employees become eligible participants in the Profit Sharing Plan once they have provided three years of service to the Company. The Company made no contributions to the Profit Sharing Plan in 2024 or 2023. X- DefinitionThe entire disclosure for an entity's employee compensation and benefit plans, including, but not limited to, postemployment and postretirement benefit plans, defined benefit pension plans, defined contribution plans, non- qualified and supplemental benefit plans, deferred compensation, share- based compensation, life insurance, severance, health care, unemployment and other benefit plans. ReferencesReference 1:

Convertible Notes that Nantahala had acquired on June 16, 2023. Zevra acquired the Marathon Convertible Notes in exchange for the issuance of 2, 171, 038 shares of Zevra Common Stock at \$ 5. 0667 per share for a total purchase price of \$ 11. 0 million. • Amendment to IP License Agreement and IP Termination Agreement: As a condition to entering into the Merger Agreement, Acer and Relief Therapeutics Holding AG (" Relief") entered into the Exclusive License Agreement and the Termination Agreement terminating the collaboration and license agreement, dated March 19, 2021, by and between Acer and Relief. Pursuant to the Exclusive License Agreement, Relief holds exclusive development and commercialization rights for OLPRUVA in Geographical Europe. Acer has the right to receive a royalty of up to 10. 0 % of the net sales of OLPRUVA in Geographical Europe. In accordance with the terms of the Termination Agreement, Relief received an upfront payment from Acer of \$ 10. 0 million (which payment was funded with the Bridge Loan described above) with an additional payment of \$ 1. 5 million due on the first- year anniversary of the \$ 10. 0 million payment. Acer also agreed to pay a 10. 0 % royalty on net sales of OLPRUVA worldwide, excluding Geographical Europe, and 20. 0 % of any value received by Acer from certain third parties relating to OLPRUVA licensing or divestment rights, all of the foregoing which are capped at \$ 45. 0 million, for total payments to Relief of up to \$ 56. 5 million. In connection with the closing of the Merger on November 17, 2023, each share of common stock of Acer was converted into the right to receive (i) 0. 1210 fully paid and non- assessable shares of common stock of Zevra, par value \$ 0. 0001 per share, and (ii) one non- transferable contingent value right (" CVR ") to be issued by Zevra, which will represent the right to receive one or more contingent payments up to an additional \$ 76 million upon the achievement, if any, of certain commercial and regulatory milestones for Acer' s OLPRUVA and celiaprolol products within specified time periods. Certain additional cash payments are also possible pursuant to the CVRs with respect to milestones involving Acer' s early- stage program ACER- 2820 (emetine). The assets acquired and liabilities assumed were recorded based on their acquisition date fair values. Consideration for the Merger was \$ 72. 6 million and consists of (i) approximately 2. 96 million shares of Zevra common stock valued at \$ 12. 8 million, (ii) the Bridge Loan advances of \$ 17. 8 million, (iii) \$ 12. 0 million in cash paid to Nantahala; (iv) 2. 27 million shares of Zevra Common Stock issued to Nantahala valued at \$ 11. 5 million based on the VWAP of shares of Zevra Common Stock during the 20 consecutive trading days ending on the trading date prior to August 30, 2023; (v) a secured promissory note payable by Zevra to Nantahala in the original principal amount of \$ 5. 0 million, as disclosed in Note 1, (vi) \$ 8. 5 million in the estimated fair value of contingent consideration related to the CVRs, (vii) approximately 0. 9 million shares of Zevra Common Stock issued to a former holder of Acer warrants valued at \$ 4. 0 million based on Zevra' s common stock price on the Effective Date and (viii) \$ 1. 0 million in notes payable paid by the Company on Acer' s behalf. In addition, effective as of immediately prior to the Effective Time, all of the outstanding and unexercised Acer stock options were automatically cancelled and ceased to exist without any cash or other consideration being paid or provided in respect thereof. The following purchase price allocation reflects the preliminary estimates of and assumptions related to the fair values of assets acquired and liabilities assumed: Assets Cash \$ 575 Prepaid expenses 278 Other current assets 11 Inventory 9, 376 Property, plant, and equipment 35 Other noncurrent assets 209 Approved product- OLPRUVA 68, 000 IPR & D- celiaprolol 2, 000 Goodwill acquired 4, 538 85, 022 Liabilities Accounts payable and accrued expenses \$ 10, 718 Deferred collaboration funding 1, 500 Operating lease liabilities 175 12, 393 Fair Value of Net Assets Acquired \$ 72, 629 The fair values assigned to the tangible and intangible assets acquired and liabilities assumed were determined using an income approach based on management' s estimates and assumptions, as well as other information compiled by management, including third- party valuations that utilize customary valuation procedures and techniques. These preliminary fair values are subject to change within the one- year measurement period. The estimated fair values were developed by discounting future net cash flows to their present value at market- based rates of return. The goodwill acquired represents the excess of the purchase price and related costs over the value assigned to the net tangible and identifiable intangible assets of the business acquired. The useful lives of the intangible assets for amortization purposes were determined by considering the period of expected cash flows used to measure the fair values of the intangible assets adjusted as appropriate for entity- specific factors including legal, regulatory, contractual, competitive, economic and other factors that may limit the useful life. The marketed product asset is amortized on a straight- line basis over its estimated useful life. As of December 31, 2023, the IPR & D project had not been completed or abandoned and, therefore, the IPR & D intangible asset is not currently subject to amortization. Cancellation of Acer Warrant On November 22, 2023, the Company sold an aggregate of 917, 934 shares of its common stock to a healthcare focused investment fund (the" Investor") to cancel a warrant held by the Investor to purchase 2, 920, 306 shares of common stock of Acer. The shares of common stock were offered and sold to the Investor in a registered direct offering without an underwriter or placement agent. Contingent Consideration Contingent consideration liabilities relate to the Company' s liabilities arising in connection with the CVRs issued as a result of the Merger. The contingent consideration is classified as Level 3 in the fair value hierarchy. The fair value is measured based on a Monte Carlo simulation or a scenario- based method, depending on the earn- out achievement objectives, utilizing projections about future performance. Significant inputs include volatility and projected financial information, including projections representative of a market participant' s view of the expected cash payments associated with the agreed upon regulatory milestones based on probabilities of technical success, timing of the potential milestone events for the compounds, and estimated discount rates. The following table provides a reconciliation of the beginning and ending balances related to the contingent consideration liabilities for the CVRs (dollars in thousands): Balance at December 31, 2023 \$ 7, 262 Change in fair value recognized in earnings (3, 762) Balance at December 31, 2024 \$ 3, 500 For the year ended December 31, 2024, the Company recorded a \$ 3. 7 million gain on the change in fair value of contingent consideration, primarily due to changes in market data and revenue projections. X- ReferencesNo definition available. Details Name: us- gaap_ DisclosureTextBlockAbstract Namespace Prefix: us- gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionThe entire disclosure for business combinations, including leverage buyout transactions (as applicable), and divestitures. This may include a description of a business combination or divestiture (or series of individually immaterial business combinations or divestitures) completed during the period, including background, timing, and assets and liabilities recognized and reclassified or sold. This element does not include fixed asset sales and plant closings. ReferencesReference 1:

economic performance, the Company considers all the facts and circumstances, including the Company's role in establishing the VIE and the Company's ongoing rights and responsibilities. The assessment includes identifying the activities that most significantly impact the VIE's economic performance and identifying which party, if any, has the power to direct those activities. In general, the parties that make the most significant decisions affecting the VIE (management and representation on the Board of Directors) are deemed to have the power to direct the activities of a VIE. To assess whether the Company has the obligation to absorb losses of the VIE or the rights to receive benefits from the VIE that could potentially be significant to the VIE, the Company considers all of its economic interests that are deemed to be variable interests in the VIE. This assessment requires judgement in determining whether these interests, in the aggregate, are considered potentially significant to the VIE. As of December 31, 2024, and 2023, the Company identified Acer to be the Company's sole interest in a VIE (Note T). As Zevra is the final decision maker for all of Acer's research, development, and commercialization of drug candidates that it is producing, the Company directs the activities of Acer that most significantly impact its performance. Therefore, the Company is the primary beneficiary of this VIE for accounting purposes. Goodwill and Intangible Assets, Policy [Policy Text Block] Goodwill and Intangible Assets Goodwill represents the excess of the consideration transferred over the fair value of the net assets acquired when accounted for using the acquisition method of accounting for business combinations. Goodwill is not amortized but is evaluated for impairment within the Company's single reporting unit on an annual basis, during the fourth quarter, or more frequently if an event occurs or circumstances change that would more-likely-than-not reduce the fair value of the Company's reporting unit below its carrying amount. The Company establishes its reporting units based on the organizational structure and has determined it has one reporting unit. In performing its analysis, in accordance with ASC 350, the Company has the option to first assess qualitatively whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount, including goodwill. In performing qualitative assessments, the Company considers, among other factors, macroeconomic conditions, the Company's overall financial performance (including, but not limited to, comparisons to prior periods, current period internal expectations, and comparable peer companies), broader industry and market considerations, and the trading price performance of the Company's common stock. The Company's goodwill balance was \$ 4. 7 million as of December 31, 2024, and 2023. As of December 31, 2024, and 2023, the Company completed its annual qualitative assessment under ASC 350 to determine whether the existence of events or circumstances indicated that it was more likely than not that the fair value of its reporting unit was less than its respective carrying value. The Company concluded that based on the relevant events and circumstances, it was more likely than not that the reporting unit's fair value exceeded its related carrying value and therefore no quantitative assessment was required. No goodwill impairment charges were recorded for the year ended December 31, 2024, or 2023. Acquired in- process research and development (" IPR & D ") that the Company acquires in conjunction with the acquisition of a business represents the fair value assigned to incomplete research projects which, at the time of acquisition, have not reached technological feasibility. The amounts are capitalized and are accounted for as indefinite- lived intangible assets, subject to impairment testing until completion or abandonment of the projects. Upon successful completion of each IPR & D project, the Company will make a determination as to the then- useful life of the intangible asset, generally determined by the period in which the substantial majority of the cash flows are expected to be generated and begin amortization. The Company evaluates IPR & D for impairment on an annual basis, during the fourth quarter, or more frequently if impairment indicators exist. The Company's IPR & D balance was \$ 2. 0 million as of December 31, 2024, and 2023. No IPR & D impairment charges were recognized for the years ended December 31, 2024, or 2023. As of December 31, 2024, and 2023, the Company had a definite- lived intangible asset, net related to the acquisition of OLPRUVA as a result of the Merger of \$ 61. 3 million and \$ 67. 2 million, respectively. This asset is amortized on a straight- line basis over the OLPRUVA patent life of thirteen years. Amortization expense is recorded as intangible asset amortization in the consolidated statements of operations and was \$ 5. 9 million and \$ 0. 8 million for the years ended December 31, 2024, and 2023, respectively. The Company reviews the estimated useful lives of its intangible assets on an ongoing basis (Note S). In connection with the XOMA License Agreement, the Company paid XOMA a regulatory milestone payment of \$ 6. 0 million upon approval of MIPLYFFA in September 2024, which is included in intangible assets, net in the consolidated balance sheet. This definite- lived intangible asset is amortized on a straight- line basis over the MIPLYFFA patent life of approximately five years and is reviewed periodically for impairment. Amortization expense is recorded as intangible asset amortization in the consolidated statement of operations and was \$ 0. 3 million for the year ended December 31, 2024. Property, Plant and Equipment, Policy [Policy Text Block] Property and Equipment The Company records property and equipment at cost less accumulated depreciation and amortization. Costs of renewals and improvements that extend the useful lives of the assets are capitalized. Maintenance and repairs are expensed as incurred. Depreciation is determined on a straight- line basis over the estimated useful lives of the assets, which generally range from three to ten years. Leasehold improvements are amortized over the shorter of the useful life of the asset or the term of the related lease. Upon retirement or disposition of assets, the costs and related accumulated depreciation and amortization are removed from the accounts with the resulting gains or losses, if any, reflected in the consolidated statements of operations. Impairment or Disposal of Long- Lived Assets, Policy [Policy Text Block] Impairment of Long- Lived Assets Long- lived assets to be held and used are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amounts of the assets may not be recoverable. When such events occur, the Company compares the carrying amounts of the assets to their undiscounted expected future cash flows. If the undiscounted cash flows are insufficient to recover the carrying values, an impairment loss is recorded for the difference between the carrying values and fair values of the asset. No such impairment occurred for the years ended December 31, 2024, or 2023. Revenue from Contract with Customer [Policy Text Block] Revenue Recognition The Company recognizes revenue in accordance with ASC 606, Revenue from Contracts with Customers (" ASC 606 ") and, as a result, follows the five- step model when recognizing revenue: 1) identifying a contract; 2) identifying the performance obligations; 3) determining the transaction price; 4) allocating the price to the performance obligations; and 5) recognizing revenue when the performance obligations have been fulfilled. Product Revenues, Net Net revenues from product sales are recognized at the transaction price when the customer obtains control of the Company's product, which occurs at a point in time, typically upon receipt of the product by the customer. The Company's current single customer is a specialty pharmacy provider. The Company's net revenues represent total revenues adjusted for discounts and allowances, including estimated cash discounts, chargebacks, rebates, returns, copay assistance, data fees and wholesaler fees for services. These adjustments represent variable consideration under ASC 606 and are recorded as a reduction of revenue. These adjustments are established by management as its best estimate based on available information and will be adjusted to reflect known changes in the factors that impact such allowances. Adjustments for variable consideration are determined based on the contractual terms with customers, historical trends, communications with customers and the levels of inventory remaining in the distribution channel, as well as expectations about the market for the product and anticipated introduction of competitive products. Licensing Agreements The terms of the Company's licensing agreements typically include one or more of the following: (i) upfront fees; (ii) milestone payments related to the achievement of development, regulatory, or commercial goals; and (iii) royalties on net sales of licensed products. Each of these payments may result in licensing revenues. As part of the accounting for these agreements, the Company must develop estimates and assumptions that require judgment to determine the underlying stand- alone selling price for each performance obligation which determines how the transaction price is allocated among the performance obligations. Generally, the estimation of the stand- alone selling price may include such estimates as independent evidence of market price, forecasted revenues or costs, development timelines, discount rates, and probability of regulatory success. The Company evaluates each performance obligation to determine if they can be satisfied at a point in time or over time, and it measures the services delivered to the licensee which are periodically reviewed based on the progress of the related program. The effect of any change made to an estimated input component and, therefore revenue or expense recognized, would be recorded as a change in estimate. In addition, variable consideration (e. g., milestone payments) must be evaluated to determine if it is constrained and, therefore, excluded from the transaction price. Up- front Fees: If a license to the Company's intellectual property is determined to be distinct from the other performance obligations identified in the arrangement, the Company recognizes revenues from the transaction price allocated to the license when the license is transferred to the licensee and the licensee is able to use and benefit from the license. For licenses that are bundled with other promises, the Company utilizes judgment to assess the nature of the combined performance obligation to determine whether the combined performance obligation is satisfied over time or at a point in time. Milestone Payments: At the inception of each arrangement that includes milestone payments (variable consideration), the Company evaluates whether the milestones are considered probable of being reached and estimates the amount to be included in the transaction price using the most likely amount method. If it is probable that a significant revenue reversal would not occur, the associated milestone value is included in the transaction price. Milestone payments that are not within the Company's or the licensee's control, such as non- operational developmental and regulatory approvals, are generally not considered probable of being achieved until those approvals are received. At the end of each reporting period, the Company re- evaluates the probability of achievement of milestones that are within its or the licensee's control, such as operational developmental milestones and any related constraint, and if necessary, adjusts its estimate of the overall transaction price. Any such adjustments are recorded on a cumulative catch- up basis, which would affect collaboration revenues and earnings in the period of adjustment. Revisions to the Company's estimate of the transaction price may also result in negative licensing revenues and earnings in the period of adjustment. Arimoclomol Expanded Access Program Net revenue includes revenue from the sale of arimoclomol for the treatment of NPC under the remunerated expanded access compassionate use program in France, Accès Compassionnel (" French AC "). An expanded access compassionate use program is a program giving specific patients access to a drug, which is not yet approved for commercial sale. Only drugs targeting serious or rare indications and for which there is currently no appropriate treatment are considered for expanded access compassionate use programs. Further, to be considered for the expanded access compassionate use program, the drug must have proven efficacy and safety and must either be undergoing price negotiations or seeking marketing approval. In accordance with ASC 606, the Company recognizes revenue when fulfilling its performance obligation under the Arimoclomol Expanded Access Program (" Arimoclomol EAP ") by transferring control of promised goods or services to its customer, in an amount that reflects the consideration that the Company expects to receive in exchange for those goods or services. In determining when the customer obtains control of the product, the Company considers certain indicators, including whether the Company has a present right to payment from the customer, whether title and / or significant risks and rewards of ownership have transferred to the customer and whether customer acceptance has been received. Revenue is recognized net of sales deductions, including discounts, rebates, applicable distributor fees, and revenue- based taxes. The French Health Authorities and the manufacturer have agreed to a price for sales under the French AC, but the final transaction price depends on the terms and conditions in the contracts with the French Health Authorities, following market approval. Any excess in the price charged by the manufacturer compared to the price agreed with the health authorities once the drug product is approved in France must be repaid. The repayment is considered in the clawback liability (rebate). An estimate of net revenue and clawback liability are recognized using the " expected value " method. Accounting for net revenue and clawback liability requires

determination of the most appropriate method for the expected final transaction price. This estimate also requires assumptions with respect to inputs into the method, including current pricing of comparable marketed products within the rare disease area in France. Management has considered the expected final sales price as well as the price of similar drug products. The Company is operating within a rare disease therapeutic area where there is unmet treatment need and hence a limited number of comparable commercialized drug products. The limited available relevant market information for directly comparable commercialized drugs within rare disease increases the uncertainty in management's estimate. In Process Research and Development, Policy | Policy Text Block | Acquired IPR & D and Milestones Expenses In an asset acquisition, payments incurred prior to regulatory approval to acquire rights to in-process R & D projects are expensed as acquired IPR & D and milestones expense in the consolidated statements of earnings unless the project has an alternative future use. These costs include upfront and development milestone payments related to R & D collaborations, licensing arrangements, or other asset acquisitions that provide rights to develop, manufacture and / or sell pharmaceutical products. Where contingent development milestone payments are due to third parties, prior to regulatory approval, the payment obligations are expensed when the milestone results are achieved. Regulatory and commercial milestone payments made to third parties subsequent to regulatory approval are capitalized as intangible assets and amortized to intangible asset amortization over the remaining useful life of the related product. Inventory, Policy | Policy Text Block | Inventories The value of inventories is recorded at net realizable value. The Company determines the cost of its other inventories, which includes amounts related to materials and manufacturing overhead, on a first-in, first-out basis. Inventories that are not expected to be sold within 12 months are classified as Inventories, noncurrent. The Company may scale-up and make commercial quantities of its product candidates prior to the date it anticipates that such product will receive final regulatory approval. The scale-up and commercial production of pre-launch inventory involves the risk that such products may not be approved for marketing on a timely basis, or ever. This risk notwithstanding, the Company may scale-up and build pre-launch inventory of product that have not received final regulatory approval when the Company believes such action is appropriate in relation to the commercial value of the product launch opportunity. We capitalize inventory costs associated with our products prior to regulatory approval when, based on management's judgment, future commercialization is considered probable and the future economic benefit is expected to be realized; otherwise, such costs are expensed as research and development. The determination to capitalize inventory costs is based on various factors, including status and expectations of the regulatory approval process, any known safety or efficacy concerns, potential labeling restrictions, and any other impediments to obtaining regulatory approval. We had no pre-approval inventory on our consolidated balance sheet as of December 31, 2024, or 2023. Inventory used in clinical trials is also expensed as research and development expense, when selected for such use. Inventory that can be used in either the production of clinical or commercial products is expensed as research and development costs when identified for use in a clinical manufacturing campaign. The cost of finished goods inventory that is shipped to a customer to support the Company's patient assistance programs is expensed when those shipments take place. As of December 31, 2024, and 2023, the Company did not have pre-launch inventory that qualified for capitalization. The Company performs an assessment of the recoverability of capitalized inventory during each reporting period and writes down any excess and obsolete inventory to its net realizable value in the period in which the impairment is first identified. Such impairment charges, should they occur, are recorded as a component of cost of product revenue in the statements of operations and comprehensive loss. The determination of whether inventory costs will be realizable requires the use of estimates by management. If actual market conditions are less favorable than projected by management, additional write-downs of inventory may be required. Additionally, the Company's product is subject to strict quality control and monitoring that it performs throughout the manufacturing process. In the event that certain batches or units of product do not meet quality specifications, the Company will record a charge to cost of product revenue, to write-down any unsaleable inventory to its estimated net realizable value. For the year ended December 31, 2024, the Company recognized a charge of approximately \$ 5. 7 million related to write-downs for unsaleable inventory. No such write-downs were recognized for the year ended December 31, 2023. Cost of Goods and Service | Policy Text Block | Cost of Product Revenue The components of cost of product revenue are royalties and expenses directly attributable to revenue. To date, the Company has generated revenue from product sales of MIPLYFFA and OLPURVA, the AZSTARYS License Agreement, sales of arimoclomol under the EAP, reimbursement of out-of-pocket third-party costs and the performance of consulting services. In connection with the AZSTARYS License Agreement, the Company pays Aquestive a royalty equal to 10 % of all regulatory milestone and royalty payments. In addition, the Company capitalized incremental costs directly attributable to the AZSTARYS License Agreement. These costs are amortized to royalties and contract costs as revenue is recognized. Under the XOMA License Agreement, XOMA is entitled to a mid-single digit percentage royalty with respect to net sales of MIPLYFFA. In addition, the Company also pays a low-single digit percentage royalty to Kansas University Center for Technology Commercialization, Inc. with respect to net sales of MIPLYFFA. Receivable | Policy Text Block | Accounts and Other Receivables Accounts and other receivables consist of receivables from MIPLYFFA and OLPURVA product sales, receivables under the AZSTARYS License Agreement and the EAP, and income tax receivables and other receivables due to the Company. Receivables under the AZSTARYS License Agreement are recorded for amounts due to the Company related to reimbursable third-party costs as well as milestones and royalties on product sales. Receivables under the EAP are recorded for product sales under the French AC. The Company provides reserves against receivables for estimated losses that may result from a customer's inability to pay. Receivables are evaluated to determine if any reserve or allowance should be recorded based on consideration of the current economic environment, expectations of future economic conditions, specific circumstances and the Company's own historical collection experience. Amounts determined to be uncollectible are charged or written-off against the reserve. Research and Development Expense, Policy | Policy Text Block | Research and Development Major components of research and development costs include cash compensation, stock-based compensation, depreciation and amortization expense on research and development property and equipment, costs of preclinical studies, clinical trials and related clinical manufacturing, costs of drug development, costs of materials and supplies, facilities cost, overhead costs, regulatory and compliance costs, and fees paid to consultants and other entities that conduct certain research and development activities on the Company's behalf. Costs incurred in research and development are expensed as incurred. The Company records nonrefundable advance payments it makes for future research and development activities as prepaid expenses. Prepaid expenses are recognized as expense in the statements of operations as the Company receives the related goods or services. The Company enters into contractual agreements with third-party vendors who provide research and development, manufacturing, and other services in the ordinary course of business. Some of these contracts are subject to milestone-based invoicing and services are completed over an extended period of time. The Company records liabilities under these contractual commitments when an obligation has been incurred. This accrual process involves reviewing open contracts and purchase orders, communicating with the applicable personnel to identify services that have been performed and estimating the level of service performed and the associated cost when the Company has not yet been invoiced or otherwise notified of actual cost. The majority of the service providers invoice the Company monthly in arrears for services performed. The Company makes estimates of the accrued expenses as of each balance sheet date based on the facts and circumstances known. The Company periodically confirms the accuracy of the estimates with the service providers and make adjustments, if necessary. Intangible Assets, Finite-Lived, Policy | Policy Text Block | Patent Costs Patent costs, including related legal costs, are expensed as incurred and recorded within general and administrative expenses on the statements of operations. Income Tax, Policy | Policy Text Block | Income Taxes The Company recognizes deferred tax assets and liabilities for the expected future tax consequences of temporary differences between the financial reporting and tax basis of assets and liabilities, as well as for operating loss and tax credit carryforwards. Deferred tax assets and liabilities are measured using the tax rates that are expected to apply to taxable income for the years in which those tax assets and liabilities are expected to be realized or settled. Valuation allowances are recorded to reduce deferred tax assets to the amount the Company believes is more likely than not to be realized. Uncertain tax positions are recognized only when the Company believes it is more likely than not that the tax position will be upheld on examination by the taxing authorities based on the merits of the position. The Company recognizes interest and penalties, if any, related to unrecognized income tax uncertainties in income tax expense. The Company did not have any accrued interest or penalties associated with uncertain tax positions as of December 31, 2024 and 2023. The Company files income tax returns in the United States for federal and various state jurisdictions. With few exceptions, the Company is no longer subject to U. S. federal and state and local income tax examinations for years prior to 2015, although carryforward attributes that were generated prior to 2017 may still be adjusted upon examination by the Internal Revenue Service if used in a future period. No income tax returns are currently under examination by taxing authorities. On December 22, 2017, the U. S. government enacted H. R. 1, "An Act to provide for reconciliation pursuant to titles II and V of the concurrent resolution on the budget for fiscal year 2018" ("Tax Act"). Effective January 1, 2018, the Tax Act provides for a new global intangible low-tax income ("GILTI") provision. Under the GILTI provision, certain foreign subsidiary earnings in excess of an allowable return on the foreign subsidiary's tangible assets are included in U. S. taxable income. The Company has not recorded any deferred taxes for future GILTI inclusions as any future inclusions are expected to be treated as a period expense and offset by net operating loss carryforwards in the U. S. Share-Based Payment Arrangement | Policy Text Block | Stock-Based Compensation The Company measures and recognizes compensation expense for all stock-based payment awards made to employees, officers and directors based on the estimated fair values of the awards as of the grant date. The Company records the value of the portion of the award that is ultimately expected to vest as expense over the requisite service period. The Company also accounts for equity instruments issued to non-employees using a fair value approach under Accounting Standards Codification ("ASC") subtopic 505-50. The Company values equity instruments and stock options granted using the Black-Scholes option pricing model. Earnings Per Share, Policy | Policy Text Block | Basic and Diluted Net Loss per Share of Common Stock The Company uses the two-class method to compute net loss per common share because the Company has issued securities, other than common stock, that contractually entitle the holders to participate in dividends and earnings of the Company. The two-class method requires earnings for the period to be allocated between common stock and participating securities based upon their respective rights to receive distributed and undistributed earnings. Holders of each series of the Company's convertible preferred stock and select warrants are entitled to participate in distributions, when and if declared by the board of directors, that are made to common stockholders and, as a result, are considered participating securities. Segment Reporting, Policy | Policy Text Block | Segment and Geographic Information Operating segments are defined as components of an enterprise (business activity from which it earns revenue and incurs expenses) for which discrete financial information is available and regularly reviewed by the chief operating decision maker ("CODM") in deciding how to allocate resources and in assessing performance. The Company's CODM is its Chief Executive Officer. The Company views its operations and manages its business as a single operating and reporting segment. The Company holds long-lived assets in the United States of \$ 13. 4 million and \$ 10. 9 million as of December 31, 2024 and 2023 respectively. The Company holds long-lived assets in Europe of \$ 0. 5 million as of both December 31, 2024 and 2023 Foreign Currency Transactions and Translations Policy | Policy Text Block | Foreign currency Assets and liabilities are translated into the reporting currency using the exchange rates in effect on the consolidated balance

sheet dates. Equity accounts are translated at historical rates, except for the change in retained earnings during the year, which is the result of the income statement translation process. Revenue and expense accounts are translated using the weighted average exchange rate during the period. The cumulative translation adjustments associated with the net assets of foreign subsidiaries are recorded in accumulated other comprehensive income / loss in the accompanying consolidated statements of stockholders' equity. Debt, Policy [Policy Text Block] Debt Issuance Costs Debt issuance costs incurred in connection with financing arrangements are recorded as a reduction of the related debt on the balance sheet and amortized over the life of the respective financing arrangement using the effective interest method. Warrants [Policy Text Block] Warrants The Company accounts for warrants as either equity- classified or liability- classified instruments based on an assessment of the warrant's specific terms and applicable authoritative guidance in FASB ASC Topic 480, Distinguishing Liabilities from Equity (ASC 480) and FASB ASC Topic 815, Derivatives and Hedging (ASC 815). The assessment considers whether the warrants are freestanding financial instruments pursuant to ASC 480, meet the definition of a liability pursuant to ASC 480, and whether the warrants meet all of the requirements for equity classification under ASC 815, including whether the warrants are indexed to the Company's own stock and whether the warrant holders could potentially require " net cash settlement " in a circumstance outside of the company's control, among other conditions for equity classification. This assessment, which requires the use of professional judgment, is conducted at the time of warrant issuance and as of each subsequent quarterly period end date while the warrants are outstanding. For warrants that meet all criteria for equity classification, the warrants are required to be recorded as a component of additional paid- in capital, on the consolidated statement of stockholders' deficit at the time of issuance. For warrants that do not meet all the criteria for equity classification, the warrants are required to be recorded at their initial fair value on the date of issuance, and on each balance sheet date thereafter. Changes in the estimated fair value of the warrants are recognized as a non- cash gain or loss in other expense, net, on the consolidated statement of operations. The fair value of the warrants was estimated using the Black- Scholes option pricing model. New Accounting Pronouncements, Policy [Policy Text Block] New Accounting Pronouncements Recently Adopted Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures In November 2023, the FASB issued Accounting Standards Update (" ASU") No. 2023- 07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures. The standard expands reportable segment disclosure requirements for public business entities primarily through expanded disclosures about significant segment expenses that are regularly provided to the chief operating decision maker (" CODM") and included within each reported measure of segment profit and loss. The Company adopted this standard for its fiscal year 2024 annual financial statements and have applied this standard retrospectively for all prior periods presented in the financial statements. See Note C for further information. New Accounting Pronouncements Not Yet Adopted Income Taxes (Topic 740): Improvements to Income Tax Disclosures In December 2023, the FASB issued ASU No. 2023- 09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures, which expands disclosures in an entity's income tax rate reconciliation table and disclosures regarding cash taxes paid both in the U. S. and foreign jurisdictions. The update will be effective for annual periods beginning after December 15, 2024. The Company is currently evaluating the impact that this guidance will have on the presentation of its consolidated financial statements and accompanying notes. X- ReferencesNo definition available. Details Name: us- gaap_ AccountingPoliciesAbstract Namespace Prefix: us- gaap_ Data Type: xbrl: stringItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for cash and cash equivalents, including the policy for determining which items are treated as cash equivalents. Other information that may be disclosed includes (1) the nature of any restrictions on the entity's use of its cash and cash equivalents, (2) whether the entity's cash and cash equivalents are insured or expose the entity to credit risk, (3) the classification of any negative balance accounts (overdrafts), and (4) the carrying basis of cash equivalents (for example, at cost) and whether the carrying amount of cash equivalents approximates fair value. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section50-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482913/230-10-50-1> Details Name: us- gaap_ CashAndCashEquivalentsPolicyTextBlock Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for credit risk. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic942-SubTopic825-Section50-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/214748898/942-825-50-1> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(d\)-SubTopic10-Topic275-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482861/275-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(d)-SubTopic10-Topic275-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482861/275-10-50-1) Details Name: us- gaap_ ConcentrationRiskCreditRisk Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for consolidation to describe the significant judgments and assumptions made in determining whether a variable interest held by the entity requires the variable interest entity to be consolidated and (or) disclose information about its involvement with the variable interest entity; the methodology used by the entity for determining whether or not it is the primary beneficiary of the variable interest entity; and the significant factors considered and judgments made in determining that the power to direct the activities that significantly impact the economic performance of the variable interest entity are shared (as defined). ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic810-SubTopic10-Paragraph2AA-Subparagraph\(a\)-Section50-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481203/810-10-50-2AA](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic810-SubTopic10-Paragraph2AA-Subparagraph(a)-Section50-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481203/810-10-50-2AA) Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic810-SubTopic10-Section50-Paragraph4-Subparagraph\(e\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481203/810-10-50-4](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic810-SubTopic10-Section50-Paragraph4-Subparagraph(e)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481203/810-10-50-4) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic810-SubTopic10-Section50-Paragraph5A-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481203/810-10-50-5A](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic810-SubTopic10-Section50-Paragraph5A-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481203/810-10-50-5A) Details Name: us- gaap_ ConsolidationVariableInterestEntityPolicy Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for cost of product sold and service rendered. ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef-NameAccountingStandardsCodification-Topic705-PublisherFASB-URIhttps://asc.fasb.org/705/tableOfContentDetailsName:us-gaap_CostOfSalesPolicyTextBlock Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy related to debt. Includes, but is not limited to, debt issuance costs, the effects of refinancings, method of amortizing debt issuance costs and original issue discount, and classifications of debt. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph1-SubTopic10-Topic470-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481544/470-10-50-1> Details Name: us- gaap_ DebtPolicyTextBlock Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for computing basic and diluted earnings or loss per share for each class of common stock and participating security. Addresses all significant policy factors, including any antidilutive items that have been excluded from the computation and takes into account stock dividends, splits and reverse splits that occur after the balance sheet date of the latest reporting period but before the issuance of the financial statements. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(d\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(d)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-1) Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic260-SubTopic10-Section50-Paragraph1-Subparagraph\(e\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic260-SubTopic10-Section50-Paragraph1-Subparagraph(e)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-1) Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic260-SubTopic10-Section50-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-2> Details Name: us- gaap_ EarningsPerSharePolicyTextBlock Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for (1) transactions denominated in a currency other than the reporting enterprise's functional currency, (2) translating foreign currency financial statements that are incorporated into the financial statements of the reporting enterprise by consolidation, combination, or the equity method of accounting, and (3) remeasurement of the financial statements of a foreign reporting enterprise in a hyperinflationary economy. ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef-Topic830-NameAccountingStandardsCodification-PublisherFASB-URIhttps://asc.fasb.org/830/tableOfContentDetailsName:us-gaap_ForeignCurrencyTransactionsAndTranslationsPolicyTextBlock Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for goodwill and intangible assets. This accounting policy also may address how an entity assesses and measures impairment of goodwill and intangible assets. ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic30-NameAccountingStandardsCodification-PublisherFASB-URIhttps://asc.fasb.org/350-30/tableOfContentReference2:https://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic20-NameAccountingStandardsCodification-PublisherFASB-URIhttps://asc.fasb.org/350-20/tableOfContentDetailsName:us-gaap_GoodwillAndIntangibleAssetsPolicyTextBlock Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for recognizing and measuring the impairment of long- lived assets. An entity also may disclose its accounting policy for long- lived assets to be sold. This policy excludes goodwill and intangible assets. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic360-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SABTopic5.CC\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480091/360-10-S99-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic360-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SABTopic5.CC)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480091/360-10-S99-2) Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section05-Paragraph4-SubTopic10-Topic360-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482338/360-10-05-4> Details Name: us- gaap_ ImpairmentOrDisposalOfLongLivedAssetsPolicyTextBlock Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for costs assigned to identifiable tangible and intangible assets of an acquired entity to be used in the research and development activities of the combined enterprise. An entity also may disclose the appraisal method or significant assumptions used to value acquired research and development assets. ReferencesNo definition available. Details Name: us- gaap_ InProcessResearchAndDevelopmentPolicy Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for income taxes, which may include its accounting policies for recognizing and measuring deferred tax assets and liabilities and related valuation allowances, recognizing investment tax credits, operating loss carryforwards, tax credit carryforwards, and other carryforwards, methodologies for determining its effective income tax rate and the characterization of interest and penalties in the financial statements. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph20-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-20> Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph19-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-19> Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph18-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-18>

role / disclosureRef- Topic 740- SubTopic 10- Name Accounting Standards Codification- Section 45- Paragraph 25- Publisher FASB- URI <https://asc.fashb.org/1943274/2147482525/740-10-45-25>Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 3- Subparagraph \(SX 210. 6- 03 \(h\) \(1\)\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147479886/946-10- S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 3- Subparagraph (SX 210. 6- 03 (h) (1))- Publisher FASB- URI https://asc.fashb.org/1943274/2147479886/946-10- S99-3)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 17- Subparagraph \(b\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147482685/740-10-50-17](http://www.xbrl.org/2003/role/disclosureRef-Topic 740- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 17- Subparagraph (b)- Publisher FASB- URI https://asc.fashb.org/1943274/2147482685/740-10-50-17)Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 9- Publisher FASB- URI https://asc.fashb.org/1943274/2147482685/740-10-50-9>Reference 7: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740- SubTopic 10- Name Accounting Standards Codification- Section 45- Paragraph 28- Publisher FASB- URI https://asc.fashb.org/1943274/2147482525/740-10-45-28>Reference 8: <http://www.xbrl.org/2003/role/disclosureRef-Topic 220- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 1- Publisher FASB- URI https://asc.fashb.org/1943274/2147482765/220-10-50-1> Details Name: us-gaap_IncomeTaxPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for finite-lived intangible assets. This accounting policy also might address: (1) the amortization method used; (2) the useful lives of such assets; and (3) how the entity assesses and measures impairment of such assets. ReferencesReference 1: [http://www.xbrl.org/2003/role/exampleRef-Topic 235- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 4- Subparagraph \(c\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147483426/235-10-50-4](http://www.xbrl.org/2003/role/exampleRef-Topic 235- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 4- Subparagraph (c)- Publisher FASB- URI https://asc.fashb.org/1943274/2147483426/235-10-50-4)Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350- SubTopic 30- Name Accounting Standards Codification- Publisher FASB- URI https://asc.fashb.org/350-30/tableOfContentReference 3: http://www.xbrl.org/2003/role/disclosureRef-Topic 926- SubTopic 20- Name Accounting Standards Codification- Section 50- Paragraph 5- Publisher FASB- URI https://asc.fashb.org/1943274/2147483154/926-20-50-5>Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 920- SubTopic 350- Name Accounting Standards Codification- Section 50- Paragraph 1- Subparagraph \(a\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147478609/920-350-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 920- SubTopic 350- Name Accounting Standards Codification- Section 50- Paragraph 1- Subparagraph (a)- Publisher FASB- URI https://asc.fashb.org/1943274/2147478609/920-350-50-1)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 920- SubTopic 350- Name Accounting Standards Codification- Section 50- Paragraph 1- Subparagraph \(b\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147478609/920-350-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 920- SubTopic 350- Name Accounting Standards Codification- Section 50- Paragraph 1- Subparagraph (b)- Publisher FASB- URI https://asc.fashb.org/1943274/2147478609/920-350-50-1)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 920- SubTopic 350- Name Accounting Standards Codification- Section 50- Paragraph 4- Subparagraph \(a\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147478609/920-350-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 920- SubTopic 350- Name Accounting Standards Codification- Section 50- Paragraph 4- Subparagraph (a)- Publisher FASB- URI https://asc.fashb.org/1943274/2147478609/920-350-50-4) Details Name: us-gaap_IntangibleAssetsFinitelivedPolicy Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of inventory accounting policy for inventory classes, including, but not limited to, basis for determining inventory amounts, methods by which amounts are added and removed from inventory classes, loss recognition on impairment of inventories, and situations in which inventories are stated above cost. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph \(SX 210. 5- 02 \(6\) \(b\)\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147480566/210-10- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph (SX 210. 5- 02 (6) (b))- Publisher FASB- URI https://asc.fashb.org/1943274/2147480566/210-10- S99-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 330- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 1- Publisher FASB- URI https://asc.fashb.org/1943274/2147483080/330-10-50-1>Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 1- Publisher FASB- URI https://asc.fashb.org/1943274/2147483489/210-10-50-1>Reference 4: [http://www.xbrl.org/2003/role/exampleRef-Topic 235- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 4- Subparagraph \(d\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147483426/235-10-50-4](http://www.xbrl.org/2003/role/exampleRef-Topic 235- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 4- Subparagraph (d)- Publisher FASB- URI https://asc.fashb.org/1943274/2147483426/235-10-50-4)Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 912- SubTopic 330- Name Accounting Standards Codification- Section 50- Paragraph 1- Publisher FASB- URI https://asc.fashb.org/1943274/2147478411/912-330-50-1>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic 330- Name Accounting Standards Codification- Publisher FASB- URI https://asc.fashb.org/330/tableOfContentReference 7: http://www.xbrl.org/2003/role/disclosureRef-Topic 330- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 4- Publisher FASB- URI https://asc.fashb.org/1943274/2147483080/330-10-50-4>Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification- Section 45- Paragraph 6- Subparagraph \(a\)- SubTopic 10- Topic 270- Publisher FASB- URI https://asc.fashb.org/1943274/2147482989/270-10-45-6](http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification- Section 45- Paragraph 6- Subparagraph (a)- SubTopic 10- Topic 270- Publisher FASB- URI https://asc.fashb.org/1943274/2147482989/270-10-45-6) Details Name: us-gaap_InventoryPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for investment in financial asset. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944- SubTopic 220- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph \(SX 210. 7- 04 \(3\) \(b\)\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147477250/944-220- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 944- SubTopic 220- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph (SX 210. 7- 04 (3) (b))- Publisher FASB- URI https://asc.fashb.org/1943274/2147477250/944-220- S99-1)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 3- Subparagraph \(SX 210. 6- 03 \(d\)\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147479886/946-10- S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 3- Subparagraph (SX 210. 6- 03 (d))- Publisher FASB- URI https://asc.fashb.org/1943274/2147479886/946-10- S99-3)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 3- Subparagraph \(SX 210. 6- 03 \(f\) \(1\)\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147479886/946-10- S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 3- Subparagraph (SX 210. 6- 03 (f) (1))- Publisher FASB- URI https://asc.fashb.org/1943274/2147479886/946-10- S99-3)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 3- Subparagraph \(SX 210. 6- 03 \(f\) \(2\)\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147479886/946-10- S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 3- Subparagraph (SX 210. 6- 03 (f) (2))- Publisher FASB- URI https://asc.fashb.org/1943274/2147479886/946-10- S99-3)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 3- Subparagraph \(SX 210. 6- 03 \(f\) \(3\)\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147479886/946-10- S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 3- Subparagraph (SX 210. 6- 03 (f) (3))- Publisher FASB- URI https://asc.fashb.org/1943274/2147479886/946-10- S99-3)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946- SubTopic 320- Name Accounting Standards Codification- Section S99- Paragraph 12- Subparagraph \(i\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147477271/946-320- S99-12](http://www.xbrl.org/2003/role/disclosureRef-Topic 946- SubTopic 320- Name Accounting Standards Codification- Section S99- Paragraph 12- Subparagraph (i)- Publisher FASB- URI https://asc.fashb.org/1943274/2147477271/946-320- S99-12)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946- SubTopic 320- Name Accounting Standards Codification- Section S99- Paragraph 19- Subparagraph \(2\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147477271/946-320- S99-19](http://www.xbrl.org/2003/role/disclosureRef-Topic 946- SubTopic 320- Name Accounting Standards Codification- Section S99- Paragraph 19- Subparagraph (2)- Publisher FASB- URI https://asc.fashb.org/1943274/2147477271/946-320- S99-19) Details Name: us-gaap_InvestmentPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy pertaining to new accounting pronouncements that may impact the entity's financial reporting. Includes, but is not limited to, quantification of the expected or actual impact. ReferencesNo definition available. Details Name: us-gaap_NewAccountingPronouncementsPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for long-lived, physical asset used in normal conduct of business and not intended for resale. Includes, but is not limited to, work of art, historical treasure, and similar asset classified as collections. ReferencesReference 1: <http://fashb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification- Section 50- Paragraph 1- SubTopic 10- Topic 360- Publisher FASB- URI https://asc.fashb.org/1943274/2147482099/360-10-50-1>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944- SubTopic 210- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph \(SX 210. 7- 03 \(a\) \(8\) \(a\)\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147478777/944-210- S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 944- SubTopic 210- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph (SX 210. 7- 03 (a) (8) (a))- Publisher FASB- URI https://asc.fashb.org/1943274/2147478777/944-210- S99-1)Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification- Section 50- Paragraph 6- SubTopic 360- Topic 958- Publisher FASB- URI https://asc.fashb.org/1943274/2147477798/958-360-50-6>Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification- Section 50- Paragraph 1- Subparagraph \(d\)- SubTopic 360- Topic 958- Publisher FASB- URI https://asc.fashb.org/1943274/2147477798/958-360-50-1](http://www.xbrl.org/2003/role/disclosureRef-Name Accounting Standards Codification- Section 50- Paragraph 1- Subparagraph (d)- SubTopic 360- Topic 958- Publisher FASB- URI https://asc.fashb.org/1943274/2147477798/958-360-50-1) Details Name: us-gaap_PropertyPlantAndEquipmentPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for receivable. Includes, but is not limited to, accounts receivable and financing receivable. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 310- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph \(c\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147481962/310-10-50-2](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 310- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph (c)- Publisher FASB- URI https://asc.fashb.org/1943274/2147481962/310-10-50-2)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 310- SubTopic 20- Name Accounting Standards Codification- Section 50- Paragraph 1- Publisher FASB- URI https://asc.fashb.org/1943274/2147481569/310-20-50-1>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 310- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph \(d\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147481962/310-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 310- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph (d)- Publisher FASB- URI https://asc.fashb.org/1943274/2147481962/310-10-50-2)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 310- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph \(a\)- Publisher FASB- URI https://asc.fashb.org/1943274/2147481962/310-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 310- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph (a)- Publisher FASB- URI https://asc.fashb.org/1943274/2147481962/310-10-50-2) Details Name: us-gaap_ReceivablesPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for costs it has incurred (1) in a planned search or critical investigation aimed at discovery of new knowledge with the hope that such knowledge will be useful in developing a new product or service, a new process or technique, or in bringing about a significant improvement to an existing product or process; or (2) to translate research findings or other knowledge into a plan or design for a new product or process or for a significant improvement to an existing product or process. 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Details Name: us-gaap_SegmentReportingPolicyPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for award under share- based payment arrangement. Includes, but is not limited to, methodology and assumption used in measuring cost. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(f\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(f)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(f\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(f)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(f\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(f)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(f\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(f)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(f\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(f)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(f\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(f)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(f\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(f)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(f\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(f)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(f\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(f)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(f\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(f)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2)

Details Name: us-gaap_ShareBasedCompensationOptionAndIncentivePlansPolicy Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionDisclosure of accounting policy for the use of estimates in the preparation of financial statements in conformity with generally accepted accounting principles. ReferencesReference 1: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic275-SubTopic10-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482861/275-10-50-9>Reference 2: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic275-SubTopic10-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482861/275-10-50-9>Reference 3: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic275-SubTopic10-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482861/275-10-50-9>Reference 4: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic275-SubTopic10-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482861/275-10-50-9>Reference 5: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic275-SubTopic10-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482861/275-10-50-9>Reference 6: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic275-SubTopic10-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482861/275-10-50-9>Reference 7: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic275-SubTopic10-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482861/275-10-50-9>Reference 8: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic275-SubTopic10-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482861/275-10-50-9>Reference 9: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic275-SubTopic10-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482861/275-10-50-9>Reference 10: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic275-SubTopic10-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482861/275-10-50-9>

Details Name: us-gaap_UseOfEstimates Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionRepresents the policy for warrants. ReferencesNo definition available. Details Name: us-gaap_WarrantsPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationNote C- Segment Information (Tables) 12 Months Ended Dec. 31, 2024 Notes Tables Schedule of Segment Reporting Information, by Segment [Table Text Block] December 31, 2024 December 31, 2024 Total revenues \$ 23, 612 \$ 27, 461 Less significant segment expenses: Research and development directly identified to programs 22, 532 30, 083 Research and development not directly identified to programs 19, 562 9, 723 Selling, general and administrative directly identified to programs 18, 094 7, 770 Selling, general and administrative not directly identified to programs 36, 775 26, 544 Other segment items: Income tax expense 15, 371- Interest income (3, 159) (4, 527) Depreciation and amortization expense 6, 389 1, 006 Interest expense 7, 351 1, 501 Other expense, net (a) 6, 208 1, 410 Segment net loss \$ (105, 511) \$ (46, 049) X- DefinitionTabular disclosure of the profit or loss and total assets for each reportable segment. An entity discloses certain information on each reportable segment if the amounts (a) are included in the measure of segment profit or loss reviewed by the chief operating decision maker or (b) are otherwise regularly provided to the chief operating decision maker, even if not included in that measure of segment profit or loss. ReferencesReference 1: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic280-SubTopic10-Section50-Paragraph25-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-25>Reference 2: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic280-SubTopic10-Section50-Paragraph25-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-25>Reference 3: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic280-SubTopic10-Section50-Paragraph25-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-25>Reference 4: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic280-SubTopic10-Section50-Paragraph25-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-25>Reference 5: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic280-SubTopic10-Section50-Paragraph25-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-25>Reference 6: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic280-SubTopic10-Section50-Paragraph25-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-25>Reference 7: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic280-SubTopic10-Section50-Paragraph25-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-25>Reference 8: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic280-SubTopic10-Section50-Paragraph25-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-25>Reference 9: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic280-SubTopic10-Section50-Paragraph25-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-25>Reference 10: <http://www.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic280-SubTopic10-Section50-Paragraph25-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-25>

Details Name: us-gaap_ScheduleOfInventoryNoncurrentTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationNote D- Inventories (Tables) 12 Months Ended Dec. 31, 2024 Notes Tables Schedule of Inventory, Noncurrent [Table Text Block] December 31, 2024 December 31, 2023 Raw Materials \$ 7, 928 \$ 2, 938 Work in progress 3, 260 1, 884 Finished goods 1, 781 5, 019 Total inventories \$ 12, 969 \$ 9, 841X- DefinitionTabular disclosure of inventories not expected to be converted to cash, sold or exchanged within the normal operating cycle including inventoried costs relating to long- term contracts or programs. ReferencesNo definition available. Details Name: us-gaap_ScheduleOfInventoryNoncurrentTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us-gaap_TableTextBlock Namespace Prefix: us-gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationNote E- Accounts and Other Receivables (Tables) 12 Months Ended Dec. 31, 2024 Notes Tables Schedule of Accounts, Notes, Loans and Financing Receivable [Table Text Block] December 31, 2024 2023 Accounts receivable \$ 10, 176 \$ 16, 119 Other receivables 333 1, 258 Total accounts and other receivables \$ 10, 509 \$ 17, 377 X- DefinitionTabular disclosure of the various types of trade accounts and notes receivable and for each the gross carrying value, allowance, and net carrying value as of the balance sheet date. Presentation is categorized by current, noncurrent and unclassified receivables. ReferencesReference 1: [http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(4\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1](http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(4))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1)Reference 2: [http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(4\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1](http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(4))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1)Reference 3: [http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(4\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1](http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(4))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1)Reference 4: [http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(4\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1](http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(4))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1)Reference 5: [http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(4\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1](http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(4))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1)Reference 6: [http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(4\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1](http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(4))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1)Reference 7: [http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(4\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1](http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(4))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1)Reference 8: [http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(4\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1](http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(4))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1)Reference 9: [http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(4\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1](http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(4))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1)Reference 10: [http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(4\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1](http://www.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(4))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-50-1)

Details Name: us-gaap_ScheduleOfAccountsNotesLoansAndFinancingReceivableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na

Period Type: durationX- ReferencesNo definition available. Details Name: us- gaap_ TableTextBlock Namespace Prefix: us- gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationNote F- Prepaid Expenses and Other Current Assets (Tables) 12 Months Ended Dec. 31, 2024 Notes Tables Deferred Costs, Capitalized, Prepaid, and Other Assets Disclosure [Table Text Block] December 31, 2024 2023 Prepaid insurance \$ 1, 037 \$ 1, 172 Other prepaid expenses and current assets 3, 015 652 Total prepaid expenses and other current assets \$ 4, 052 \$ 1, 824 X- DefinitionTabular disclosure of the amounts paid in advance for capitalized costs that will be expensed with the passage of time or the occurrence of a triggering event, and will be charged against earnings within one year or the normal operating cycle, if longer; the aggregate carrying amount of current assets, not separately presented elsewhere in the balance sheet; and other deferred costs. ReferencesNo definition available. Details Name: us- gaap_ DeferredCostsCapitalizedPrepaidAndOtherAssetsDisclosureTextBlock Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us- gaap_ TableTextBlock Namespace Prefix: us- gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationNote G- Property and Equipment (Tables) 12 Months Ended Dec. 31, 2024 Notes Tables Property, Plant and Equipment [Table Text Block] December 31, 2024 2023 Laboratory equipment \$ 463 \$ 711 Furniture and office equipment 200 157 Computers and hardware 701 643 Leasehold improvements 710 710 Finance lease right- of- use assets 8 149 Total property and equipment 2, 082 2, 370 Less: accumulated depreciation and amortization (1, 726) (1, 634) Property and equipment, net \$ 356 \$ 736 Property, Plant and Equipment, Useful Life [Table Text Block] Useful Life Asset Category (in years) Laboratory equipment 10 Furniture and office equipment 5- 10 Computers and hardware 3- 7 Leasehold improvements 9 X- DefinitionTabular disclosure of physical assets used in the normal conduct of business and not intended for resale. Includes, but is not limited to, balances by class of assets, depreciation and depletion expense and method used, including composite depreciation, and accumulated depreciation. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph1-SubTopic10-Topic360-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482099/360-10-50-1> Details Name: us- gaap_ PropertyPlantAndEquipmentTextBlock Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us- gaap_ TableTextBlock Namespace Prefix: us- gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionTabular disclosure of useful lives of physical assets used in the normal conduct of business and not intended for resale. ReferencesNo definition available. Details Name: zvrz_ PropertyPlantAndEquipmentUsefulLifeTableTextBlock Namespace Prefix: zvrz_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationNote H- Accounts Payable and Accrued Expenses (Tables) 12 Months Ended Dec. 31, 2024 Notes Tables Schedule of Accounts Payable and Accrued Liabilities [Table Text Block] December 31, 2024 2023 Accrued payroll 6, 126 10, 671 Accrued professional fees 863 675 Accounts payable 13, 075 13, 987 Other accrued expenses 5, 392 3, 070 Total accounts payable and accrued expenses \$ 25, 456 \$ 28, 403 X- DefinitionTabular disclosure of the (a) carrying value as of the balance sheet date of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity' s business (accounts payable); (b) other payables; and (c) accrued liabilities. Examples include taxes, interest, rent and utilities. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). An alternative caption includes accrued expenses. ReferencesNo definition available. Details Name: us- gaap_ ScheduleOfAccountsPayableAndAccruedLiabilitiesTableTextBlock Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us- gaap_ TableTextBlock Namespace Prefix: us- gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationNote I- Debt Obligations (Tables) 12 Months Ended Dec. 31, 2024 Notes Tables Schedule of Long- Term Debt Instruments [Table Text Block] December 31, 2024 December 31, 2023 Notes payable \$ 61, 552 \$ — Secured promissory note — 5, 000 Unamortized original issue (discount) premium (921) 148 Less: debt issuance costs (1, 127) (82) \$ 59, 504 \$ 5, 066 Schedule of Maturities of Long- Term Debt [Table Text Block] Year Ending December 31, 2024 December 31, 2024 2025 \$ — 2026 — 2027 — 2028 — 2029 61, 552 Total minimum payments 61, 552 Less: unamortized debt discount and debt issuance costs (2, 048) Long- term debt \$ 59, 504 X- DefinitionTabular disclosure of long- debt instruments or arrangements, including identification, terms, features, collateral requirements and other information necessary to a fair presentation. These are debt arrangements that originally required repayment more than twelve months after issuance or greater than the normal operating cycle of the entity, if longer. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(22\)\)-SubTopic10-Topic210-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(22))-SubTopic10-Topic210-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic470-SubTopic20-NameAccountingStandardsCodification-Section55-Paragraph69B-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481568/470-20-55-69B> Reference 3: <http://www.xbrl.org/2003/role/exampleRef-Topic470-SubTopic20-NameAccountingStandardsCodification-Section55-Paragraph69E-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481568/470-20-55-69E> Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic235-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.12-04\(a\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480678/235-10-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic235-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.12-04(a))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480678/235-10-S99-3) Reference 5: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic835-SubTopic30-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482925/835-30-45-2> Reference 6: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic505-SubTopic10-Section50-Paragraph3-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-3> Reference 7: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic942-SubTopic470-Section50-Paragraph3-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477734/942-470-50-3> Reference 8: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic505-SubTopic10-Section50-Paragraph8-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-8> Reference 9: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph6-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-6> Reference 10: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph7-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-7> Details Name: us- gaap_ ScheduleOfDebtInstrumentsTextBlock Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionTabular disclosure of maturity and sinking fund requirement for long- term debt. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph1-SubTopic10-Topic470-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481544/470-10-50-1> Details Name: us- gaap_ ScheduleOfMaturitiesOfLongTermDebtTableTextBlock Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us- gaap_ TableTextBlock Namespace Prefix: us- gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationNote L- Stock and Warrants (Tables) 12 Months Ended Dec. 31, 2024 Notes Tables Schedule of Authorized Shares of Common Stock Reserved for Future Issuance [Table Text Block] December 31, 2024 2023 Outstanding awards under equity incentive plans 7, 789, 658 8, 023, 142 Outstanding common stock warrants 5, 483, 537 5, 603, 729 Possible future issuances under equity incentive plans 5, 383, 165 1, 728, 885 Possible future issuances under employee stock purchase plan 1, 148, 012 1, 340, 172 Total common shares reserved for future issuance 19, 804, 372 16, 695, 928 Schedule of Common Stock Outstanding Roll Forward [Table Text Block] Shares of Common Stock Balance as of January 1, 2023 34, 540, 304 Common stock issued as compensation to third- parties 44, 791 Common stock issued as a result of stock warrants exercised 110 Common stock issued as a result of stock options exercised 7, 500 Common stock repurchased as a result of the Stock Repurchase Program (665, 739) Common stock issued in connection with the Merger (Note T) 7, 530, 509 Common stock issued as a result of the Employee Stock Purchase Plan 77, 193 Balance as of December 31, 2023 41, 534, 668 Common stock issued in connection with the Public Offering (Note B) 10, 615, 385 Common stock issued in connection with restricted stock units 218, 000 Common stock issued as compensation to third- parties 92, 988 Common stock issued in connection with vesting of performance- based awards 547, 945 Common stock issued as a result of stock options exercised 469, 563 Common stock issued as a result of the Employee Stock Purchase Plan 192, 160 Balance as of December 31, 2024 53, 670, 709 X- DefinitionTabular disclosure of the change in common stock outstanding. ReferencesNo definition available. Details Name: us- gaap_ ScheduleOfCommonStockOutstandingRollForwardTableTextBlock Namespace Prefix: us- gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us- gaap_ TableTextBlock Namespace Prefix: us- gaap_ Data Type: xbrli: stringItemType Balance Type: na Period Type: durationX- DefinitionTabular disclosure of authorized shares of common stock reserved for future issuance. ReferencesNo definition available. Details Name: zvrz_ ScheduleOfAuthorizedSharesOfCommonStockReservedForFutureIssuanceTableTextBlock Namespace Prefix: zvrz_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationNote M- Stock- based Compensation (Tables) 12 Months Ended Dec. 31, 2024 Notes Tables Share- Based Payment Arrangement, Expensed and Capitalized, Amount [Table Text Block] Year ended December 31, 2024 2023 Research and development \$ 5, 819 \$ 2, 664 General and administrative 9, 087 3, 290 Total stock- based compensation expense \$ 14, 906 \$ 5, 954 Schedule of Share- Based Payment Award, Stock Options, Valuation Assumptions [Table Text Block] Year Ended December 31, 2024 2023 Risk- free interest rate 3. 82 % - 4. 50 % 3. 34 % - 4. 79 % Expected term (in years) 5. 50 - 6. 25 5. 50 - 10. 00 Expected volatility 89. 85 % - 91. 32 % 89. 48 % - 93. 67 % Expected dividend yield 0. 0 Share- Based Payment Arrangement, Option, Activity [Table Text Block] Weighted Weighted Avg Aggregate Number of Average Remaining Intrinsic Options Exercise Price Contractual Term Value Outstanding balance at January 1, 2024 7, 275, 197 \$ 8. 40 8. 68 \$ 11, 089 Granted 962, 700 \$ 5. 74-- Exercised or released 1, 162, 705 \$ 5. 30- \$ 1, 966 Canceled or forfeited 314, 250 \$ 4. 90-- Expired 809, 542 \$ 22. 52-- Outstanding balance at December 31, 2024 5, 951, 400 \$ 7. 25 6. 79 \$ 17, 448 Exercisable at December 31, 2024 2, 399, 305 \$ 10. 25 4. 47 \$ 6, 302 Vested and expected to vest at December 31, 2024 5, 764, 166 6. 75 \$ 16, 783 Share- Based Payment Arrangement, Option, Exercise Price Range [Table Text Block] Options Outstanding Options Exercisable Weighted Avg Weighted Avg Number of Remaining Number of Remaining Exercise Price Shares Contractual Term Shares Contractual Term \$ 2. 848 to \$ 10. 00 841, 257 6. 91 2, 289, 162 4. 69 \$ 10. 01 to \$ 30. 00 1, 875 4. 31 1, 875 4. 37 \$ 30. 01 to \$ 50. 00 39, 218 2. 67 39, 218 2. 71 \$ 50. 01 to \$ 70. 00 21, 958 1. 60 21, 958 1. 63 \$ 70. 01 to \$ 327. 20 47, 092 1. 36 47, 092 8. 34 \$ 951, 400 2, 399, 305 Schedule of Nonvested Restricted Stock Units Activity [Table Text Block] Number of Unvested Shares December 31, Exercise Price 2024 2023 \$ 2. 848 to \$ 10. 00 3, 552, 095 5, 614, 977 Total number of unvested stock options 3, 552, 095 5, 614, 977 Restricted Stock Units (RSUs) [Member] Notes Tables Schedule of Unvested Restricted Stock Units Roll Forward [Table Text Block] Shares Weighted- average grant date fair value Unvested balance at December 31, 2023 747, 945 \$ 4. 33 Granted 2, 012, 958 \$ 5. 52 Vested 765, 945 4. 77 Forfeited 156, 700 5. 83 Unvested balance at December 31, 2024 1, 838, 258 \$ 5. 32 As of December 31, 2024 there was \$ 7. 1 million of total unrecognized compensation cost related to restricted stock units. X- DefinitionTabular disclosure of allocation of amount expensed and capitalized for award under share- based payment arrangement to statement of income or comprehensive income and statement of financial position. Includes, but is not limited to, corresponding line item in

financial statement. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph1> (1)-Publisher FASB-URI https://asc.fsb.org/1943274/2147480429/718-10-50-2DetailsName:us-gaap_ScheduleOfEmployeeShareBasedCompensationAllocationOfRecognizedPeriodCostsTextBlockNamespacePrefix:us-gaap_DataType:dtr-types:textBlockItemTypeBalanceType:naPeriodType:durationX-DefinitionTabulardisclosureofthechangesinoutstandingnonvestedrestrictedstockunits. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(c\)\(2\)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147480429/718-10-50-2DetailsName:us-gaap_ScheduleOfNonvestedRestrictedStockUnitsActivityTableTextBlockNamespacePrefix:us-gaap_DataType:dtr-types:textBlockItemTypeBalanceType:naPeriodType:durationX-DefinitionTabulardisclosureofoptionexerciseprices,bygroupedranges,includingtheupperandlowerlimitsofthepricerange,thenumberofsharesunderoption,weightedaverageexercisepriceandremainingcontractualoptionterms](http://fasb.org/us-gaap/role/ref/legacyRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(c)(2)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147480429/718-10-50-2DetailsName:us-gaap_ScheduleOfNonvestedRestrictedStockUnitsActivityTableTextBlockNamespacePrefix:us-gaap_DataType:dtr-types:textBlockItemTypeBalanceType:naPeriodType:durationX-DefinitionTabulardisclosureofoptionexerciseprices,bygroupedranges,includingtheupperandlowerlimitsofthepricerange,thenumberofsharesunderoption,weightedaverageexercisepriceandremainingcontractualoptionterms). ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(c\)\(1\)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147480429/718-10-50-2Reference2:https://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(d\)-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(e\)-SubTopic10-Topic718-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147480429/718-10-50-2DetailsName:us-gaap_ScheduleOfShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeTextBlockNamespacePrefix:us-gaap_DataType:dtr-types:textBlockItemTypeBalanceType:naPeriodType:durationX-DefinitionTabulardisclosureforstockoptionplans.Includes,butisnotlimitedto,outstandingawardsatbeginningandendofyear,grants,exercises,forfeitures,andweighted-averagegrantdatefairvalue](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(c)(1)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147480429/718-10-50-2Reference2:https://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(d)-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(e)-SubTopic10-Topic718-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147480429/718-10-50-2DetailsName:us-gaap_ScheduleOfShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeTextBlockNamespacePrefix:us-gaap_DataType:dtr-types:textBlockItemTypeBalanceType:naPeriodType:durationX-DefinitionTabulardisclosureforstockoptionplans.Includes,butisnotlimitedto,outstandingawardsatbeginningandendofyear,grants,exercises,forfeitures,andweighted-averagegrantdatefairvalue). ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(c\)\(1\)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147480429/718-10-50-2Reference2:https://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(e\)-SubTopic10-Topic718-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147480429/718-10-50-2DetailsName:us-gaap_ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlockNamespacePrefix:us-gaap_DataType:dtr-types:textBlockItemTypeBalanceType:naPeriodType:durationX-DefinitionTabulardisclosureofthesignificantassumptionsusedduringtheyeartoestimatethefairvalueofstockoptions,including,butnotlimitedto:\(a\)expectedtermofshareoptionsandsimilarinstruments,\(b\)expectedvolatilityoftheentity'sshares,\(c\)expecteddividends,\(d\)risk-free rate \(s\), and \(e\) discount for post-vesting restrictions](http://fasb.org/us-gaap/role/ref/legacyRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(c)(1)-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147480429/718-10-50-2Reference2:https://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(e)-SubTopic10-Topic718-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147480429/718-10-50-2DetailsName:us-gaap_ScheduleOfShareBasedCompensationStockOptionsActivityTableTextBlockNamespacePrefix:us-gaap_DataType:dtr-types:textBlockItemTypeBalanceType:naPeriodType:durationX-DefinitionTabulardisclosureofthesignificantassumptionsusedduringtheyeartoestimatethefairvalueofstockoptions,including,butnotlimitedto:(a)expectedtermofshareoptionsandsimilarinstruments,(b)expectedvolatilityoftheentity'sshares,(c)expecteddividends,(d)risk-free rate (s), and (e) discount for post-vesting restrictions). ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic718-SubTopic10-Subparagraph\(f\)\(2\)-NameAccountingStandardsCodification-Paragraph2-Section50-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147480429/718-10-50-2DetailsName:us-gaap_ScheduleOfShareBasedPaymentAwardStockOptionsValuationAssumptionsTableTextBlockNamespacePrefix:us-gaap_DataType:dtr-types:textBlockItemTypeBalanceType:naPeriodType:durationX-DefinitionTabulardisclosureofthechangeinrestrictedstockunits\(RSUs\).ReferencesNodefinitionavailable.DetailsName:us-gaap_ScheduleOfUnvestedRestrictedStockUnitsRollForwardTableTextBlockNamespacePrefix:us-gaap_DataType:dtr-types:textBlockItemTypeBalanceType:naPeriodType:durationX-ReferencesNodefinitionavailable.DetailsName:us-gaap_TableTextBlockNamespacePrefix:us-gaap_DataType:xbrli:stringItemTypeBalanceType:naPeriodType:durationX-DetailsName:us-gaap_AwardTypeAxis=us-gaap_RestrictedStockUnitsRSUMemberNamespacePrefix:DataType:naBalanceType:PeriodType:NoteN-FairValueofFinancialInstruments\(Tables\)12MonthsEndedDec.31,2024NotesTablesScheduleofFairValue,AssetsandLiabilitiesMeasuredonRecurringBasis|TableTextBlock|QuotedPricesSignificantinActiveOtherSignificantBalanceatMarketsforObservableUnobservableDecember31,IdenticalAssetsInputsInputs2024\(Level1\)\(Level2\)\(Level3\)CVRliability\(NoteT\)\\$3,500\\$-\\$3,500Warrantliabilities17,804--17,804Totalliabilities\\$21,304\\$-\\$21,304Securities:U.S.Treasurysecurities\\$35,711\\$35,711\\$-\\$Corporatebonds6,010-6,010Totalassets\\$41,721\\$35,711\\$6,010\\$-QuotedPricesSignificantinActiveOtherSignificantBalanceatMarketsforObservableUnobservableDecember31,IdenticalAssetsInputsInputs2023\(Level1\)\(Level2\)\(Level3\)CVRliability\(NoteT\)\\$7,262\\$-\\$7,262Warrantliabilities16,100--16,100Totalliabilities\\$23,362\\$-\\$23,362Securities:U.S.Treasurysecurities\\$24,688\\$24,688\\$-Totalassets\\$24,688\\$24,688\\$-\\$FairValueMeasurementInputsandValuationTechniques|TableTextBlock|December31,2024December31,2023Risk-freeinterestrate4.08%-4.23%3.76%-4.12%Volatility62.14%-68.68%62.01%-92.42%Dividendyield--%Expectedterm\(years\)1.02-3.892.0-4.9Weightedaveragefairvalue\\$3.25\\$2.94FairValue,LiabilitiesMeasuredonRecurringBasis,UnobservableInputReconciliation|TableTextBlock|BalanceatDecember31,2023\\$16,100Changeinfairvaluemeasurement1,704BalanceatDecember31,2024\\$17,804X-DefinitionTabulardisclosureofinputandvaluationtechniqueusedtomeasurefairvalueandchangeinvaluationapproachandtechniqueforeachseparateclassofassetandliabilitymeasuredonrecurringandnonrecurringbasis](http://fasb.org/us-gaap/role/ref/legacyRef-Topic718-SubTopic10-Subparagraph(f)(2)-NameAccountingStandardsCodification-Paragraph2-Section50-PublisherFASB-URIhttps://asc.fsb.org/1943274/2147480429/718-10-50-2DetailsName:us-gaap_ScheduleOfShareBasedPaymentAwardStockOptionsValuationAssumptionsTableTextBlockNamespacePrefix:us-gaap_DataType:dtr-types:textBlockItemTypeBalanceType:naPeriodType:durationX-DefinitionTabulardisclosureofthechangeinrestrictedstockunits(RSUs).ReferencesNodefinitionavailable.DetailsName:us-gaap_ScheduleOfUnvestedRestrictedStockUnitsRollForwardTableTextBlockNamespacePrefix:us-gaap_DataType:dtr-types:textBlockItemTypeBalanceType:naPeriodType:durationX-ReferencesNodefinitionavailable.DetailsName:us-gaap_TableTextBlockNamespacePrefix:us-gaap_DataType:xbrli:stringItemTypeBalanceType:naPeriodType:durationX-DetailsName:us-gaap_AwardTypeAxis=us-gaap_RestrictedStockUnitsRSUMemberNamespacePrefix:DataType:naBalanceType:PeriodType:NoteN-FairValueofFinancialInstruments(Tables)12MonthsEndedDec.31,2024NotesTablesScheduleofFairValue,AssetsandLiabilitiesMeasuredonRecurringBasis|TableTextBlock|QuotedPricesSignificantinActiveOtherSignificantBalanceatMarketsforObservableUnobservableDecember31,IdenticalAssetsInputsInputs2024(Level1)(Level2)(Level3)CVRliability(NoteT)$3,500$-$3,500Warrantliabilities17,804--17,804Totalliabilities$21,304$-$21,304Securities:U.S.Treasurysecurities$35,711$35,711$-$Corporatebonds6,010-6,010Totalassets$41,721$35,711$6,010$-QuotedPricesSignificantinActiveOtherSignificantBalanceatMarketsforObservableUnobservableDecember31,IdenticalAssetsInputsInputs2023(Level1)(Level2)(Level3)CVRliability(NoteT)$7,262$-$7,262Warrantliabilities16,100--16,100Totalliabilities$23,362$-$23,362Securities:U.S.Treasurysecurities$24,688$24,688$-Totalassets$24,688$24,688$-$FairValueMeasurementInputsandValuationTechniques|TableTextBlock|December31,2024December31,2023Risk-freeinterestrate4.08%-4.23%3.76%-4.12%Volatility62.14%-68.68%62.01%-92.42%Dividendyield--%Expectedterm(years)1.02-3.892.0-4.9Weightedaveragefairvalue$3.25$2.94FairValue,LiabilitiesMeasuredonRecurringBasis,UnobservableInputReconciliation|TableTextBlock|BalanceatDecember31,2023$16,100Changeinfairvaluemeasurement1,704BalanceatDecember31,2024$17,804X-DefinitionTabulardisclosureofinputandvaluationtechniqueusedtomeasurefairvalueandchangeinvaluationapproachandtechniqueforeachseparateclassofassetandliabilitymeasuredonrecurringandnonrecurringbasis). ReferencesReference 1:

Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us-gaap_TableTextBlock Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: durationNote P- Net Loss Per Share (Tables) 12 Months Ended Dec. 31, 2024 Notes Tables Schedule of Antidilutive Securities Excluded from Computation of Earnings Per Share [Table Text Block] December 31, 2024 2023 Awards under equity incentive plans 1, 148, 012 1, 728, 885 Common stock warrants 5, 483, 537 5, 603, 729 Total securities excluded from the calculation of weighted average number of shares of common stock outstanding 6, 631, 549 7, 332, 614 Schedule of Earnings Per Share, Basic and Diluted [Table Text Block] December 31, 2024 2023 Basic and diluted net loss per share of common stock: Net loss, basic and diluted \$ (105, 511) \$ (46, 049) Weighted average number of shares of common stock outstanding, basic and diluted 46, 251 35, 452 Basic and diluted net loss per share of common stock \$ (2. 28) \$ (1. 30) X- DefinitionTabular disclosure of securities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) in the future that were not included in the computation of diluted EPS because to do so would increase EPS amounts or decrease loss per share amounts for the period presented, by antidilutive securities. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic260-SubTopic10-Section50-Paragraph1-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic260-SubTopic10-Section50-Paragraph1-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-1) Details Name: us-gaap_ScheduleOfAntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionTabular disclosure of an entity's basic and diluted earnings per share calculations, including a reconciliation of numerators and denominators of the basic and diluted per- share computations for income from continuing operations. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic260-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482662/260-10-50-1) Details Name: us-gaap_ScheduleOfEarningsPerShareBasicAndDilutedTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us-gaap_TableTextBlock Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: durationNote Q- Leases (Tables) 12 Months Ended Dec. 31, 2024 Notes Tables Lease, Cost [Table Text Block] Year Ended December 31, Lease Cost 2024 2023 Finance lease cost: Amortization of right- of- use assets \$ 44 \$ 102 Interest on lease liabilities-- Total finance lease cost 44 102 Operating lease cost 330 437 Short- term lease cost 177 171 Variable lease cost 39 40 Less: sublease income (128) (157) Total lease costs \$ 462 \$ 593 Schedule of Leases Cash Flow Information [Table Text Block] Year Ended December 31, 2024 2023 Cash paid for amounts included in the measurement of lease liabilities: Financing cash flows from finance leases- 5 Operating cash flows from operating leases 405 552 Operating cash flows from short- term leases 225 171 Operating cash flows from variable lease costs 39 40 Right- of- use assets obtained in exchange for lease liabilities: Finance leases S- S- Operating leases 419- Schedule of Leases Balance Sheet Information [Table Text Block] December 31, 2024 2023 Finance Leases Property and equipment, at cost \$ 1, 031 \$ 1, 031 less: accumulated depreciation and amortization (1, 023) (882) Property and equipment, net \$ 8 \$ 149 Operating Leases Operating lease right- of- use assets \$ 657 \$ 790 Total operating lease right- of- use assets \$ 657 \$ 790 Current portion of operating lease liabilities \$ 420 \$ 543 Operating lease liabilities, less current portion 372 456 Total operating lease liabilities \$ 792 \$ 999 Weighted Average Remaining Lease Term Operating leases (in years) 3. 2 Weighted Average Discount Rate Finance leases- 14. 3 % Operating leases 9. 9 % 7. 6 % Operating and Finance Lease, Liability, Maturity [Table Text Block] Operating Year Ending December 31, Leases 2025 \$ 481 2026 138 2027 127 2028 150 2029 38 Thereafter 10 Total lease payments 944 Less: future interest expense (152) Lease liabilities \$ 792 X- DefinitionTabular disclosure of lessee's lease cost. Includes, but is not limited to, interest expense for finance lease, amortization of right- of- use asset for finance lease, operating lease cost, short- term lease cost, variable lease cost and sublease income. ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic842-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph4-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478964/842-20-50-4> Details Name: us-gaap_LeaseCostTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us-gaap_TableTextBlock Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: durationX- DefinitionTabular disclosure of undiscounted cash flows of operating and finance lease liability. Includes, but is not limited to, reconciliation of undiscounted cash flows to operating and finance lease liability recognized in statement of financial position. ReferencesNo definition available. Details Name: vzra_OperatingAndFinanceLeaseLiabilityMaturityTableTextBlock Namespace Prefix: vzra_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionTabular disclosure of leases related to balance sheet. ReferencesNo definition available. Details Name: vzra_ScheduleOfLeasesBalanceSheetInformationTableTextBlock Namespace Prefix: vzra_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionTabular disclosure of leases related to cash flow information. ReferencesNo definition available. Details Name: vzra_ScheduleOfLeasesCashFlowInformationTableTextBlock Namespace Prefix: vzra_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationNote S- Goodwill & Intangible Assets (Tables) 12 Months Ended Dec. 31, 2024 Notes Tables Schedule of Finite- Lived Intangible Assets, Future Amortization Expense [Table Text Block] 2025 \$ 6, 461 2026 \$ 6, 461 2027 \$ 6, 461 2028 \$ 6, 461 2029 \$ 5, 830X- DefinitionTabular disclosure of the amount of amortization expense expected to be recorded in succeeding fiscal years for finite- lived intangible assets. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40> Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2) Details Name: us-gaap_ScheduleOfFiniteLivedIntangibleAssetsFutureAmortizationExpenseTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us-gaap_TableTextBlock Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: durationNote T- Merger (Tables) 12 Months Ended Dec. 31, 2024 Notes Tables Schedule of Recognized Identified Assets Acquired and Liabilities Assumed [Table Text Block] Assets Cash \$ 575 Prepaid expenses 278 Other current assets 11 Inventory 9, 376 Property, plant, and equipment 35 Other noncurrent assets 209 Approved product- OLRPUVA 68, 000 IPR & D- celiprolol 2, 000 Goodwill acquired 4, 538 85, 022 Liabilities Accounts payable and accrued expenses \$ 10, 718 Deferred collaboration funding 1, 500 Operating lease liabilities 175 12, 393 Fair Value of Net Assets Acquired \$ 72, 629 Schedule of Business Acquisitions by Acquisition, Contingent Consideration [Table Text Block] Balance at December 31, 2023 \$ 7, 262 Change in fair value recognized in earnings (3, 762) Balance at December 31, 2024 \$ 3, 500 X- DefinitionTabular disclosure of contingent payment arrangements including the terms that will result in payment and the accounting treatment that will be followed if such contingencies occur, including the potential impact on earnings per share if contingencies are to be settled in common stock of the entity. The description also may include the period over which amounts are expected to be paid, and changes in the amount since the previous reporting period. This also includes contingent options and commitments. ReferencesNo definition available. Details Name: us-gaap_ScheduleOfBusinessAcquisitionsByAcquisitionContingentConsiderationTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- DefinitionTabular disclosure of the amounts recognized as of the acquisition date for each major class of assets acquired and liabilities assumed. May include but not limited to the following: (a) acquired receivables; (b) contingencies recognized at the acquisition date; and (c) the fair value of noncontrolling interests in the acquiree. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Topic805-SubTopic20-NameAccountingStandardsCodification-Paragraph1-Section50-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1> Details Name: us-gaap_ScheduleOfRecognizedIdentifiedAssetsAcquiredAndLiabilitiesAssumedTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr- types: textBlockItemType Balance Type: na Period Type: durationX- ReferencesNo definition available. Details Name: us-gaap_TableTextBlock Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: durationNote A- Description of Business, Basis of Presentation and Significant Transactions (Details Textual)- USD (\$) / shares in Units, \$ in Millions12 Months EndedAug. 12, 2024 Aug. 08, 2024 Jul. 11, 2024 Dec. 31, 2024 Feb. 26, 2025 Jul. 12, 2024 Jun. 04, 2024 Feb. 05, 2024 Oct. 31, 2023 Aug. 30, 2023 Jul. 02, 2021Common Stock Registered, Shares (in shares) 2, 269, 721 Common Stock Registered, Maximum Offering Price \$ 350. 0 Stock Issued During Period, Shares, New Issues (in shares) 10, 615, 385 ATM Agreement Sales [Member] Common Stock Registered, Maximum Offering Price \$ 75. 0 ATM Agreement Sales [Member] | JMP [Member] Stock Issued During Period, Shares, New Issues (in shares) Equity Distribution Agreement, Maximum Aggregate Offering Price \$ 75. 0 Equity Distribution Agreement, Commission Fee, Percentage of Gross Sales 3. 00 % ATM Agreement Sales [Member] | JMP and RBCCM [Member] Stock Issued During Period, Shares, New Issues (in shares) Equity Distribution Agreement, Maximum Aggregate Offering Price \$ 75. 0Underwriting Agreement [Member] Stock Issued During Period, Shares, New Issues (in shares) 9, 230, 770 Shares Issued, Price Per Share (in dollars per share) \$ 6. 5 Over- Allotment Option [Member] | Maximum [Member] Stock Issuable During the Period (in shares) 1, 384, 615 Underwriting Agreement and Over- allotment Option [Member] Stock Issued During Period, Shares, New Issues (in shares) 10, 615, 385 Proceeds from Issuance of Common Stock, Net \$ 64. 5 Bridge Loan [Member] Financing Receivable, Maximum Limit \$ 18. 0 \$ 18. 0 Forecast [Member] | PRV Transfer Agreement [Member] Nontrade Receivables \$ 150. 0 X- DefinitionCarrying amounts due as of the balance sheet date of the sum of amounts receivable other than from customers. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(3\)\(a\)\(4\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(3)(a)(4))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Details Name: us-gaap_NontradeReceivablesNamespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX- DefinitionPer share or per unit amount of equity securities issued. ReferencesNo definition available. Details Name: us-gaap_SharesIssuedPricePerShareNamespace Prefix: us-gaap_ Data Type: dtr- types: perShareItemType Balance Type: na Period Type: instantX- DefinitionNumber of new stock issued during the period. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-SubTopic10-Topic505-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-2> Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(28\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(28))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(29\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(29))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic505-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478448/946-505-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic505-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478448/946-505-50-2) Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.6-09\(4\)\(b\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.6-09(4)(b))-PublisherFASB-URIhttps://asc.fasb.org/1943274/)

2147479134 / 946-220-S99-3Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210.6-03 \(i\) \(1\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210.6-03 (i) (1))-Publisher FASB-URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3)Reference 7: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.3-04\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.3-04)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1)Details Name: us-gaap_StockIssuedDuringPeriodSharesNewIssues Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: durationX- DefinitionRepresents maximum offering price under common stock registered. ReferencesNo definition available. Details Name: zvrz_CommonStockRegisteredMaximumOfferingPrice Namespace Prefix: zvrz_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX- DefinitionShares registered as apart of an S-3 filing. ReferencesNo definition available. Details Name: zvrz_CommonStockRegisteredShares Namespace Prefix: zvrz_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instantX- DefinitionThe percentage of gross sales for commission fee under the equity distribution agreement. ReferencesNo definition available. Details Name: zvrz_EquityDistributionAgreementCommissionFeePercentageOfGrossSales Namespace Prefix: zvrz_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instantX- DefinitionThe maximum aggregate offering price under the equity distribution agreement. ReferencesNo definition available. Details Name: zvrz_EquityDistributionAgreementMaximumAggregateOfferingPrice Namespace Prefix: zvrz_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX- DefinitionThe maximum limit of the financing receivable. ReferencesNo definition available. Details Name: zvrz_FinancingReceivableMaximumLimit Namespace Prefix: zvrz_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX- DefinitionThe cash inflow from issuance of common stock, net of cash paid for issuance cost. ReferencesNo definition available. Details Name: zvrz_ProceedsFromIssuanceOfCommonStockNet Namespace Prefix: zvrz_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX- DefinitionNumber of stock issuable during the period. ReferencesNo definition available. Details Name: zvrz_StockIssuableDuringThePeriod Namespace Prefix: zvrz_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: durationX- Details Name: us-gaap_SubsidarySaleOfStockAxis = zvrz_AtmAgreementSalesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_CounterpartyNameAxis = zvrz_JmpMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_CounterpartyNameAxis = zvrz_JMPAndRBCCMMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_SubsidarySaleOfStockAxis = zvrz_UnderwritingAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_SubsidarySaleOfStockAxis = us-gaap_OverAllotmentOptionMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_RangeAxis = srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_SubsidarySaleOfStockAxis = zvrz_UnderwritingAgreementAndOverAllotmentOptionMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_AccountsNotesLoansAndFinancingReceivableByReceivableTypeAxis = us-gaap_BridgeLoanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_StatementScenarioAxis = srt_ScenarioForecastMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_TypeOfArrangementAxis = zvrz_PRIVTransferAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note B- Summary of Significant Accounting Policies (Details Textual) \$ in Thousands 12 Months Ended Mar. 20, 2012 Dec. 31, 2024 USD (\$) Dec. 31, 2023 USD (\$) Investments, Fair Value Disclosure \$ 41,700 \$ 24,700 Unrealized Gain (Loss) on Investments 18,000,000 Debt Securities, Available-for-Sale, Fair Value, Maturity, Allocated and Single Maturity Date, Year One 35,700 Debt Securities, Available-for-Sale, Fair Value, Maturity, Allocated and Single Maturity Date, after Year One Through Five 6,000 Goodwill 4,701 4,701 Goodwill, Impairment Loss Indefinite-Lived Intangible Assets (Excluding Goodwill) 2,000 2,000 Finite-Lived Intangible Assets, Net \$ 61,300 \$ 67,200 Finite-Lived Intangible Asset, Useful Life (Year) 13 years 11 years Amortization of Intangible Assets \$ 6,235 \$ 772 Payments to Acquire Intangible Assets 6,000 (0) Impairment, Long-Lived Asset, Held-for-Use Inventory, Net 1,970 Inventory Write-down 5,746 Income Tax Examination, Penalties and Interest Accrued \$ 0 Income tax returns under examination UNITED STATES | Operating Segments | Member | Long-Lived Assets \$ 13,400,900 Europe | Member | | Operating Segments | Member | Long-Lived Assets Pre-launch Inventory that Qualified for Capitalization | Member | Inventory, Net \$ 0 Minimum | Member | Property, Plant and Equipment, Useful Life (Year) 3 years Maximum | Member | Property, Plant and Equipment, Useful Life (Year) 10 years AZSTARYS License Agreement | Member | | Aquestive Therapeutics | Member | | License | Member | Royalty Revenue, Percent 10.00 % 10.00 % Patents | Member | Finite-Lived Intangible Asset, Useful Life (Year) 13 years Patents | Member | | OLPRUVA | Member | Amortization of Intangible Assets \$ 5,900 Patents | Member | | XOMA License Agreement | Member | Finite-Lived Intangible Asset, Useful Life (Year) 5 years Amortization of Intangible Assets \$ 300 Patents | Member | | XOMA License Agreement | Member | | Capitalization, Royalty Expense | Member | Payments to Acquire Intangible Assets 6,000 In Process Research and Development | Member | Indefinite-Lived Intangible Assets (Excluding Goodwill) 2,000 2,000 Impairment of Intangible Assets, Indefinite-Lived (Excluding Goodwill) \$ 0 \$ 0X- DefinitionThe aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph \(b\)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 45-Paragraph 28-Subparagraph (b)-SubTopic 10-Topic 230-Publisher FASB-URI https://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 55-Paragraph 40-Publisher FASB-URI https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\) \(2\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a) (2)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 45-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147482686/350-30-45-2>Details Name: us-gaap_AmortizationOfIntangibleAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX- DefinitionFair value of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale), with single maturity date and allocated without single maturity date, maturing in second through fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 320-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481800/320-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 320-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481800/320-10-50-3)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 320-Name Accounting Standards Codification-Section 50-Paragraph 3A-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147477268/942-320-50-3A](http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 320-Name Accounting Standards Codification-Section 50-Paragraph 3A-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147477268/942-320-50-3A)Details Name: us-gaap_AvailableForSaleSecuritiesDebtMaturitiesAfterOneThroughFiveYearsFairValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX- DefinitionFair value of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale), with single maturity date and allocated without single maturity date, maturing in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 320-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481800/320-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 320-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147481800/320-10-50-3)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 320-Name Accounting Standards Codification-Section 50-Paragraph 3A-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147477268/942-320-50-3A](http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 320-Name Accounting Standards Codification-Section 50-Paragraph 3A-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147477268/942-320-50-3A)Details Name: us-gaap_AvailableForSaleSecuritiesDebtMaturitiesWithinOneYearFairValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX- DefinitionUseful life of finite-lived intangible assets, in 'PnYnMnDnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. ReferencesNo definition available. Details Name: us-gaap_FiniteLivedIntangibleAssetUsefulLife Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instantX- DefinitionAmount after amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\) \(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 30-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a) (1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 926-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 5-Publisher FASB-URI https://asc.fasb.org/1943274/2147483154/926-20-50-5>Details Name: us-gaap_FiniteLivedIntangibleAssetsNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 280-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 49-Publisher FASB-URI https://asc.fasb.org/1943274/2147482785/280-10-55-49>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 55-Paragraph 24-Publisher FASB-URI https://asc.fasb.org/1943274/2147482548/350-20-55-24>Reference 3: [http://www.xbrl.org/2003/role/exampleRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 100-Subparagraph \(d\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482078/820-10-55-100](http://www.xbrl.org/2003/role/exampleRef-Topic 820-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 100-Subparagraph (d)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482078/820-10-55-100)Reference 4: <http://www.xbrl.org/2003/role/exampleRef-Topic 852-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 10-Publisher FASB-URI https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.5-02 \(15\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02 (15))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1)Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 45-Paragraph 1-Publisher FASB-URI https://asc.fasb.org/1943274/2147482598/350-20-45-1>Reference 7: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482573/350-20-50-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482573/350-20-50-1)Reference 8: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(h\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482573/350-20-50-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 350-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (h)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482573/350-20-50-1)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210.9-03 \(10\) \(1\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.9-03 (10) (1))-Publisher FASB-URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1)Details Name: us-gaap_Goodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-

DefinitionAmount of impairment loss from asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name>

Accounting Standards Codification- Section 45- Paragraph 28- Subparagraph (b)- SubTopic 10- Topic 230- Publisher FASB- URI <https://asc.fasb.org/1943274/2147482740/230-10-45-28>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section55-Paragraph24-PublisherFASB-URI> <https://asc.fasb.org/1943274/2147482548/350-20-55-24>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(b\)-PublisherFASB-URI](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(b)-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147482573/350-20-50-2>Reference 4: [http://www.xbrl.org/2003/role/exampleRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph100-Subparagraph\(d\)-PublisherFASB-URI](http://www.xbrl.org/2003/role/exampleRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph100-Subparagraph(d)-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147482078/820-10-55-100>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(e\)-PublisherFASB-URI](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(e)-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147482573/350-20-50-1>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URI> <https://asc.fasb.org/1943274/2147482598/350-20-45-2> Details Name: us-gaap_GoodwillImpairmentLoss Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of impairment loss resulting from write-down of assets, excluding financial assets and goodwill, lacking physical substance and having a projected indefinite period of benefit to fair value. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URI> <https://asc.fasb.org/1943274/2147482686/350-30-45-2>Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(b\)-PublisherFASB-URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(b)-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147482665/350-30-50-2>Reference 3: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(b\)-PublisherFASB-URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(b)-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147482665/350-30-50-2>Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph\(b\)-PublisherFASB-URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(b)-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147482740/230-10-45-28> Details Name: us-gaap_ImpairmentOfIntangibleAssetsExcludingGoodwill Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe aggregate amount of write-downs for impairments recognized during the period for long lived assets held for use (including those held for disposal by means other than sale). ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph\(b\)-SubTopic10-Topic230-PublisherFASB-URI](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(b)-SubTopic10-Topic230-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147482740/230-10-45-28>Reference 2: [http://www.xbrl.org/2003/role/exampleRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph100-Subparagraph\(e\)-PublisherFASB-URI](http://www.xbrl.org/2003/role/exampleRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph100-Subparagraph(e)-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147482078/820-10-55-100>Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic360-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(b\)-PublisherFASB-URI](http://fasb.org/us-gaap/role/ref/legacyRef-Topic360-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(b)-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147482099/360-10-50-2>Reference 4: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic360-SubTopic10-Section45-Paragraph4-PublisherFASB-URI> <https://asc.fasb.org/1943274/2147482130/360-10-45-4> Details Name: us-gaap_ImpairmentOfLongLivedAssetsHeldForUse Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe amount of estimated penalties and interest accrued as of the balance sheet date arising from income tax examinations. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph15-Subparagraph\(c\)-PublisherFASB-URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph15-Subparagraph(c)-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147481372/852-10-55-15> Details Name: us-gaap_IncomeTaxExaminationPenaltiesAndInterestAccrued Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAmount of assets, excluding financial assets and goodwill, lacking physical substance and having a projected indefinite period of benefit. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URI> <https://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic10-NameAccountingStandardsCodification-Section545-Paragraph1-PublisherFASB-URI> <https://asc.fasb.org/1943274/2147480265/350-10-545-1>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(b\)-PublisherFASB-URI](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(b)-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147482665/350-30-50-2> Details Name: us-gaap_IndefiniteLivedIntangibleAssetsExcludingGoodwill Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic852-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph10-PublisherFASB-URI> <https://asc.fasb.org/1943274/2147481372/852-10-55-10>Reference 2: [http://www.xbrl.org/2003/role/exampleRef-Topic210-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph1-Subparagraph\(b\)-PublisherFASB-URI](http://www.xbrl.org/2003/role/exampleRef-Topic210-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph1-Subparagraph(b)-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147483467/210-10-45-1>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic210-SubTopic10-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph\(SX210.5-02\(6\)\)-PublisherFASB-URI](http://www.xbrl.org/2003/role/disclosureRef-Topic210-SubTopic10-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph(SX210.5-02(6))-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147480566/210-10-599-1> Details Name: us-gaap_InventoryNet Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of loss from reductions in inventory due to subsequent measurement adjustments, including, but not limited to, physical deterioration, obsolescence, or changes in price levels. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic330-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-PublisherFASB-URI> <https://asc.fasb.org/1943274/2147483080/330-10-50-2> Details Name: us-gaap_InventoryWriteDown Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX- DefinitionFair value portion of investment securities, including, but not limited to, marketable securities, derivative financial instruments, and investments accounted for under the equity method. ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2E-PublisherFASB-URI> <https://asc.fasb.org/1943274/2147482106/820-10-50-2E>Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(b\)-PublisherFASB-URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(b)-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147482106/820-10-50-2>Reference 3: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)-PublisherFASB-URI](http://www.xbrl.org/2009/role/commonPracticeRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147482106/820-10-50-2> Details Name: us-gaap_InvestmentsFairValueDisclosure Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX- DefinitionLong-lived assets other than financial instruments, long-term customer relationships of a financial institution, mortgage and other servicing rights, deferred policy acquisition costs, and deferred tax assets. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph41-Subparagraph\(b\)-PublisherFASB-URI](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph41-Subparagraph(b)-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147482810/280-10-50-41> Details Name: us-gaap_NoncurrentAssets Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX- DefinitionThe cash outflow to acquire asset without physical form usually arising from contractual or other legal rights, excluding goodwill. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph13-Subparagraph\(c\)-PublisherFASB-URI](http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph13-Subparagraph(c)-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147482740/230-10-45-13> Details Name: us-gaap_PaymentsToAcquireIntangibleAssets Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX- DefinitionUseful life of long lived, physical assets used in the normal conduct of business and not intended for resale, in 'PnYnMnDtHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. Examples include, but not limited to, land, buildings, machinery and equipment, office equipment, furniture and fixtures, and computer equipment. ReferencesNo definition available. Details Name: us-gaap_PropertyPlantAndEquipmentUsefulLife Namespace Prefix: us-gaap_Data Type: xbrli:durationItemType Balance Type: na Period Type: instantX- DefinitionAmount of unrealized gain (loss) on investment. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph\(b\)-SubTopic10-Topic230-PublisherFASB-URI](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(b)-SubTopic10-Topic230-PublisherFASB-URI) <https://asc.fasb.org/1943274/2147482740/230-10-45-28> Details Name: us-gaap_UnrealizedGainLossOnInvestments Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX- DefinitionNumber of returns under examination ReferencesNo definition available. Details Name: zvrz_IncomeTaxExaminationNumberOfReturnsUnderExamination Namespace Prefix: zvrz_Data Type: xbrli:integerItemType Balance Type: na Period Type: instantX- DefinitionRepresents the royalty revenue expressed as a percentage. ReferencesNo definition available. Details Name: zvrz_RoyaltyRevenuePercent Namespace Prefix: zvrz_Data Type: dtl:types:percentItemType Balance Type: na Period Type: durationX- Details Name: srt_StatementGeographicalAxis = country_US Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_ConsolidationItemsAxis = us-gaap_OperatingSegmentsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_StatementGeographicalAxis = srt_EuropeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_PublicUtilitiesInventoryAxis = zvrz_PrelaunchInventoryThatQualifiedForCapitalizationMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_TypeOfArrangementAxis = zvrz_AZSTARYSLicenseAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_CounterpartyNameAxis = zvrz_AqstiveTherapeuticsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_ProductOrServiceAxis = us-gaap_LicenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis = us-gaap_PatentsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_TypeOfArrangementAxis = zvrz_OlpruvaMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_TypeOfArrangementAxis = zvrz_XomaLicenseAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_CapitalizedContractCostAxis = zvrz_CapitalizationRoyaltyExpenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_IndefiniteLivedIntangibleAssetsByMajorClassAxis = us-gaap_InProcessResearchAndDevelopmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note C- Segment Information (Details Textual) 12

Months Ended Dec. 31, 2024 Number of Operating SegmentsX- DefinitionNumber of operating segments. An operating segment is a component of an enterprise: (a) that engages in business activities from which it may earn revenues and incur expenses (including revenues and expenses relating to transactions with other components of the same enterprise), (b) whose operating results are regularly reviewed by the enterprise's chief operating decision maker to make decisions about resources to be allocated to the segment and assess its performance, and (c) for which discrete financial information is available. An operating segment may engage in business activities for which it has yet to earn revenues, for example, start-up operations may be operating segments before earning revenues. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph49-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482785/280-10-55-49>Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph18-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-18> Details Name: us-gaap_NumberOfOperatingSegments Namespace Prefix: us-gaap_Data Type: xbrli:integerItemType Balance Type: na Period Type: durationNote C- Segment Information- Operating Segment Results (Details)- USD (\$) 5 in Thousands 12 Months EndedDec. 31, 2024 Dec. 31, 2023Total revenues \$ 23, 612 \$ 27, 461Research and development 42, 095 39, 806Selling, general and administrative 54, 868 34, 121Income tax expense 15, 371 (0) Depreciation and amortization expense 6, 389 1, 006Interest expense 7, 351 1, 501Segment net loss (105, 511) (46, 049) Operating Segments | Member | Income tax expense 15, 371Interest income (3, 159) (4, 527) Depreciation and amortization expense 6, 389 1, 006Interest expense 7, 351 1, 501Other expense, net (a) | 1 | 6, 208 1, 410Segment net loss (105, 511) (46, 049) Operating Segments | Member | Direct Operating Costs | Member | Research and development 22, 532 30, 083Selling, general and administrative 18, 094 7, 770Operating Segments | Member | Indirect Operating Costs | Member | Research and development 19, 562 9, 723Selling, general and administrative 36, 775 \$ 26, 544 | 1 | Other expense, net included in segment net income includes foreign currency exchange gains and losses, cost of product revenue, intangible asset amortization, fair value adjustment related to warrant and CVR liabilities, fair value adjustment related to investments, and other overhead expense. X- DefinitionThe aggregate expense recognized in the current period that allocates the cost of tangible assets, intangible assets, or depleting assets to periods that benefit from use of the assets. ReferencesReference 1: [http://www.xbrl.org/2003/role/exampleRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph48-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482785/280-10-55-48](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(b)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic270-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(i\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482964/270-10-50-1](http://www.xbrl.org/2003/role/exampleRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph49-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482785/280-10-55-49)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph\(e\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph(ee)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32) Details Name: us-gaap_DepreciationDepletionAndAmortization Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph\(ee\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic270-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(i)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482964/270-10-50-1)Reference 3: [http://www.xbrl.org/2003/role/exampleRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph231-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482663/740-10-55-231](http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph12-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-12)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(SAB Topic 6. I. 7\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479360/740-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-9)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph10-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482685/740-10-50-10](http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph8-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-8)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph\(h\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph(h)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22)Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX 210. 7-04 \(9\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477250/944-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX 210. 7-04 (9))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477250/944-220-S99-1)Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX 210. 7-04 \(9\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477250/944-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX 210. 7-04 (9))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147477250/944-220-S99-1)Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic20-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX 210. 4-08 \(h\)\)-SubTopic10-Topic235-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic20-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX 210. 4-08 (h))-SubTopic10-Topic235-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480678/235-10-S99-1) Details Name: us-gaap_IncomeTaxExpenseBenefit Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of interest expense classified as nonoperating. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph\(d\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph(d)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22)Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX 210. 5-03\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2](http://www.xbrl.org/2009/role/commonPracticeRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX 210. 5-03)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2) Details Name: us-gaap_InterestExpenseNonoperating Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount before accretion (amortization) of purchase discount (premium) of interest income on nonoperating securities. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22)Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX 210. 5-03 \(7\) \(b\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2](http://www.xbrl.org/2003/role/exampleRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph48-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482785/280-10-55-48)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic270-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(i\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482964/270-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic270-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(i)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482964/270-10-50-1)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph\(ee\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph(ee)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32) Details Name: us-gaap_InvestmentIncomeInterest Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX- DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph9-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-9](http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph6-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-6)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic740-SubTopic323-NameAccountingStandardsCodification-Section65-Paragraph2-Subparagraph\(g\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478666/740-323-65-2](http://www.xbrl.org/2003/role/disclosureRef-Topic805-SubTopic60-NameAccountingStandardsCodification-Section65-Paragraph1-Subparagraph(g)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147476176/805-60-65-1)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic235-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX 210. 4-08 \(g\)\(1\)\(ii\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic220-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX 210. 5-03 (20))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483621/220-10-S99-2)Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic825-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph28-Subparagraph\(f\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482907/825-10-50-28](http://www.xbrl.org/2003/role/disclosureRef-Topic323-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481687/323-10-50-3)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic220-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph6-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482765/220-10-50-6)Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(b\)\(2\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(b)(2)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-1)Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph8-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-8](http://www.xbrl.org/2003/role/disclosureRef-Topic815-SubTopic40-NameAccountingStandardsCodification-Section65-Paragraph1-Subparagraph(f)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480175/815-40-65-1)Reference 14: [http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph11-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph11-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483443/250-10-50-11)Reference 16: <http://www.xbrl.org/2003/role/disclosureRef-Topic250-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph4-PublisherFASB-URIhttps://>

asc.fashb.org/1943274/2147483443/250-10-50-4Reference 17:

ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(6\)\(a\)\(3\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(6)(a)(3))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Details Name: us-gaap_InventoriesWorkInProgress Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-DefinitionRepresents inventory. ReferencesNo definition available. Details Name: zvrz_InventoriesCurrentAndNoncurrentTotal Namespace Prefix: zvrz_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantNote E-Accounts and Other Receivables-Accounts and Other Receivables (Details)-USD (\$) \$ in Thousands Dec. 31, 2024 Dec. 31, 2023Accounts receivable \$ 10,176 \$ 16,119Other receivables 1,258Total accounts and other receivables \$ 10,509 \$ 17,377X-DefinitionAmount, after allowance, receivable from customers, clients, or other third parties, and receivables classified as other due within one year or the normal operating cycle, if longer. ReferencesNo definition available. Details Name: us-gaap_AccountsAndOtherReceivablesNetCurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-DefinitionAmount, after allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current. ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic310-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481990/310-10-45-2> Details Name: us-gaap_AccountsReceivableNetCurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-DefinitionAmount, after allowance, of receivables classified as other, due within one year or the operating cycle, if longer. ReferencesNo definition available. Details Name: us-gaap_OtherReceivablesNetCurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantNote F-Prepaid Expenses and Other Current Assets-Components of Prepaid Expenses and Other Current Assets (Details)-USD (\$) \$ in Thousands Dec. 31, 2024 Dec. 31, 2023Prepaid insurance \$ 1,037 \$ 1,172Other prepaid expenses and current assets 3,015Total prepaid expenses and other current assets \$ 4,052 \$ 1,824X-DefinitionAmount of asset related to consideration paid in advance for costs that provide economic benefits in future periods, and amount of other assets that are expected to be realized or consumed within one year or the normal operating cycle, if longer. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(9\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(9))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Details Name: us-gaap_PrepaidExpenseAndOtherAssetsCurrent Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-DefinitionAmount of asset related to consideration paid in advance for insurance that provides economic benefits within a future period of one year or the normal operating cycle, if longer. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic210-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483467/210-10-45-1> Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic340-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483032/340-10-45-1> Reference 3: [http://www.xbrl.org/2003/role/exampleRef-Topic340-SubTopic10-NameAccountingStandardsCodification-Section05-Paragraph5-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482955/340-10-05-5](http://www.xbrl.org/2003/role/exampleRef-Topic340-SubTopic10-NameAccountingStandardsCodification-Section05-Paragraph5-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482955/340-10-05-5) Details Name: us-gaap_PrepaidInsurance Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-DefinitionAmount of prepaid expenses and current assets classified as other. ReferencesNo definition available. Details Name: zvrz_OtherPrepaidExpensesAndCurrentAssets Namespace Prefix: zvrz_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantNote G-Property and Equipment (Details Textual)-USD (\$) 12 Months EndedDec. 31, 2024 Dec. 31, 2023Depreciation, Depletion and Amortization \$ 6,389,000 \$ 1,006,000Property and Equipment, Including Finance Leases [Member] Depreciation, Depletion and Amortization \$ 208,000 \$ 245,000X-DefinitionThe aggregate expense recognized in the current period that allocates the cost of tangible assets, intangible assets, or depleting assets to periods that benefit from use of the assets. ReferencesReference 1: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph\(b\)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28](http://asc.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(b)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28) Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph48-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482785/280-10-55-48> Reference 3: <http://www.xbrl.org/2003/role/exampleRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph49-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482785/280-10-55-49> Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic270-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(i\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482964/270-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic270-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(i)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482964/270-10-50-1) Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph\(ee\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph(ee)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32) Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph\(e\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph(e)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22) Details Name: us-gaap_DepreciationDepletionAndAmortization Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis = zvrz_PropertyAndEquipmentIncludingFinanceLeasesMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note G-Property and Equipment-Components of Property and Equipment (Details)-USD (\$) \$ in Thousands Dec. 31, 2024 Dec. 31, 2023Property and equipment, gross \$ 2,082 \$ 2,370Less: accumulated depreciation and amortization (1,726) (1,634) Property and equipment, netLaboratory Equipment [Member] Property and equipment, grossFurniture and Fixtures [Member] Property and equipment, grossComputer and Hardware [Member] Property and equipment, grossLeasehold Improvements [Member] Property and equipment, grossFinance Lease, Right-of-Use Assets [Member] Property and equipment, gross \$ 8 \$ 149X-DefinitionAmount of accumulated depreciation, depletion and amortization for physical assets used in the normal conduct of business to produce goods and services. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.7-03\(a\)\(8\)\(b\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.7-03(a)(8)(b))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478777/944-210-S99-1) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(14\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(14))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 3: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic360-SubTopic10-Section50-Paragraph1-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482099/360-10-50-1](http://asc.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic360-SubTopic10-Section50-Paragraph1-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482099/360-10-50-1) Details Name: us-gaap_AccumulatedDepreciationDepletionAndAmortizationPropertyPlantAndEquipment Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX-DefinitionAmount before accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.7-03\(a\)\(8\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.7-03(a)(8))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478777/944-210-S99-1) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(13\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(13))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 3: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic360-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482099/360-10-50-1](http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic360-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482099/360-10-50-1) Details Name: us-gaap_PropertyPlantAndEquipmentGross Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. ReferencesReference 1: <http://asc.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph1-SubTopic10-Topic360-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482099/360-10-50-1> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic842-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph7A-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478964/842-20-50-7A](http://www.xbrl.org/2003/role/disclosureRef-Topic842-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph7A-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478964/842-20-50-7A) Reference 3: <http://www.xbrl.org/2003/role/exampleRef-Topic852-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph10-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481372/852-10-55-10> Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.7-03\(a\)\(8\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic944-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.7-03(a)(8))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478777/944-210-S99-1) Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic942-SubTopic360-NameAccountingStandardsCodification-Section50-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478451/942-360-50-1> Details Name: us-gaap_PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX-Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis = zvrz_LaboratoryEquipmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X-Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis = us-gaap_FurnitureAndFixturesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X-Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis = zvrz_ComputerAndHardwareMember Namespace Prefix: Data Type: na Balance Type: Period Type: X-Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis = us-gaap_LeaseholdImprovementsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X-Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis = zvrz_FinanceLeaseRightofUseAssetsMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note G-Property and Equipment-Estimated Useful Lives of Property and Equipment (Details) Dec. 31, 2024Minimum [Member] Property and equipment, useful lives (Year) 3 yearsMaximum [Member] Property and equipment, useful lives (Year) 10 yearsLaboratory Equipment [Member] Property and equipment, useful lives (Year) 10 yearsFurniture and Fixtures [Member] Minimum [Member] Property and equipment, useful lives (Year) 5 yearsFurniture and Fixtures [Member] Maximum [Member] Property and equipment, useful lives (Year) 10 yearsComputer and Hardware [Member] Minimum [Member] Property and equipment, useful lives (Year) 3 yearsComputer and Hardware [Member] Maximum [Member] Property and equipment, useful lives (Year) 7 yearsLeasehold Improvements [Member] Property and equipment, useful lives (Year) 9 yearsX-DefinitionUseful life of long lived, physical assets used in the normal conduct of business and not intended for resale, in 'PnYnMdTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. Examples include, but not limited to, land, buildings, machinery and equipment, office equipment, furniture and fixtures, and computer equipment. ReferencesNo definition available. Details Name: us-gaap_PropertyPlantAndEquipmentUsefulLife Namespace Prefix: us-gaap_Data Type: xbrli:durationItemType Balance Type: na Period Type: instantX-Details Name: srt_RangeAxis = srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X-Details Name:

srt_RangeAxis = srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-
 gaap_PropertyPlantAndEquipmentByTypeAxis = zvra_LaboratoryEquipmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name:
 us- gaap_PropertyPlantAndEquipmentByTypeAxis = us- gaap_FurnitureAndFixturesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details
 Name: us- gaap_PropertyPlantAndEquipmentByTypeAxis = zvra_ComputerAndHardwareMember Namespace Prefix: Data Type: na Balance Type: Period Type: X-
 Details Name: us- gaap_PropertyPlantAndEquipmentByTypeAxis = us- gaap_LeaseholdImprovementsMember Namespace Prefix: Data Type: na Balance Type: Period
 Type: Note H- Accounts Payable and Accrued Expenses- Accounts Payable and Accrued Expenses (Details)- USD (\$) \$ in Thousands Dec. 31, 2024 Dec. 31, 2023 Accrued
 payroll \$ 6, 126 \$ 10, 671 Accrued professional fees/Accounts payable 13, 075 13, 987 Other accrued expenses 5, 392 3, 070 Total accounts payable and accrued expenses \$
 25, 456 \$ 28, 403 X- Definition Sum of the carrying values as of the balance sheet date of obligations incurred through that date and due within one year (or the operating
 cycle, if longer), including liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received, taxes, interest,
 rent and utilities, accrued salaries and bonuses, payroll taxes and fringe benefits. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(20\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(20))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(19\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(19))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Details Name: us-
 gaap_AccountsPayableAndAccruedLiabilitiesCurrent Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instant X-
 Definition Carrying value as of the balance sheet date of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and
 services received that are used in an entity's business. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if
 longer). References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(19\)\(a\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(19)(a))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic852-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph10-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481372/852-10-55-10> Details Name: us- gaap_AccountsPayableCurrent Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance
 Type: credit Period Type: instant X- Definition Carrying value as of the balance sheet date of obligations incurred through that date and payable for professional fees, such
 as for legal and accounting services received. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer).
 References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(20\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(20))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Details Name: us-
 gaap_AccruedProfessionalFeesCurrent Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instant X-
 Definition Carrying value as of the balance sheet date of the obligations incurred through that date and payable for employees' services provided. Used to reflect the
 current portion of the liabilities (due within one year or within the normal operating cycle if longer). References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(20\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(20))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 2: [http://www.xbrl.org/2003/role/exampleRef-Topic210-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph8-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483467/210-10-45-8](http://www.xbrl.org/2003/role/exampleRef-Topic210-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph8-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483467/210-10-45-8) Details Name: us-
 gaap_AccruedSalariesCurrent Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instant X- Definition Amount of
 expenses incurred but not yet paid classified as other, due within one year or the normal operating cycle, if longer. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(20\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(20))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Details Name: us- gaap_OtherAccruedLiabilitiesCurrent Namespace Prefix: us- gaap_ Data Type:
 xbrli: monetaryItemType Balance Type: credit Period Type: instant Note 1- Debt Obligations (Details Textual)- USD (\$) \$ in Thousands 1 Months Ended 12 Months
 Ended Apr. 05, 2024 Aug. 30, 2023 Jan. 31, 2023 Jan. 26, 2023 Nov. 30, 2023 Dec. 31, 2024 Dec. 31, 2023 Mar. 01, 2024 Nov. 17, 2023 Stock Issued During Period, Shares,
 Acquisitions (in shares) 1, 382, 489 7, 530, 509 Proceeds from Issuance of Debt \$ 58, 990 \$ 42, 431 Debt Issuance Costs, Net 1, 127 Wells Fargo Bank, N. A. [Member]
 Long- Term Line of Credit \$ 37, 700 Wells Fargo Bank, N. A. [Member] | Prime Rate [Member] Debt Instrument, Basis Spread on Variable Rate 2. 25 % Wells Fargo
 Bank, N. A. [Member] | Minimum [Member] Line of Credit Facility, Maximum Borrowing Capacity, Percentage of Investments 80. 00 % Wells Fargo Bank, N. A. [Member] |
 Maximum [Member] Line of Credit Facility, Maximum Borrowing Capacity, Percentage of Investments 90. 00 % SWK Loans [Member] Payments to
 Acquire Notes Receivable \$ 12, 000 \$ 12, 000 Stock Issued During Period, Shares, Acquisitions (in shares) 98, 683 98, 683 Nantahala Note [Member] Debt Instrument,
 Face Amount \$ 5, 000 \$ 5, 000 Debt Instrument, Interest Rate, Stated Percentage 9. 00 % Debt Instrument, Interest Rate, Stated Percentage, If Unpaid Within Six
 Months 12. 00 % Debt Instrument, Interest Rate, Increase in Stated Percentage, If Unpaid Within Six Months 3. 00 % 3. 00 % Debt Instrument, Interest, Shares,
 Consecutive Trading Days For Calculation of VWAP (Day) 20 days Debt Instrument, Periodic Payment, Interest \$ 600 Term Loans Under Credit Agreement [Member]
 Debt Instrument, Face Amount \$ 100, 000 Proceeds from Issuance of Debt 60, 000 Debt Instrument, Available Amount Until 18 Months Following Closing Date 20, 000
 Debt Instrument, Available Amount Until 18 Months Following Closing Date, Maximum Each Drawing 10, 000 Debt Instrument, Available Amount Until December 31,
 2024 20, 000 Debt Instrument, Net Product Sales Performance Benchmark 100, 000 Debt Instrument, Net Product Sales Performance Benchmark in Next Year \$ 125, 000
 Debt Instrument, Maximum Interest Payment, Percentage 25. 00 % Interest Payable 1, 400 Debt Issuance Costs, Net 2, 200 Debt Instrument, Minimum Cash Balance \$
 20, 000 Term Loans Under Credit Agreement [Member] Secured Overnight Financing Rate (SOFR) [Member] Debt Instrument, Basis Spread on Variable Rate 7. 00
 % Debt Instrument, Basis Spread on Variable Rate When Performance Benchmark Meet 6. 00 % Debt Instrument, Basis Spread on Variable Rate When Performance
 Benchmark Meet in Next Year 6. 50 % Debt Instrument, Floor Rate 4. 00 % X- Definition Percentage points added to the reference rate to compute the variable rate on
 the debt instrument. References No definition available, Details Name: us- gaap_DebtInstrumentBasisSpreadOnVariableRate1 Namespace Prefix: us- gaap_ Data Type:
 dtr- types: percentItemType Balance Type: na Period Type: duration X- Definition Face (par) amount of debt instrument at time of issuance. References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic835-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph8-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482949/835-30-55-8> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic470-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1B-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic470-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1B-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481139/470-20-50-1B) Reference 3: <http://www.xbrl.org/2003/role/exampleRef-Topic470-SubTopic20-NameAccountingStandardsCodification-Section55-Paragraph69B-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481568/470-20-55-69B> Reference 4: <http://www.xbrl.org/2003/role/exampleRef-Topic470-SubTopic20-NameAccountingStandardsCodification-Section55-Paragraph69C-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481568/470-20-55-69C> Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic835-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph1A-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482900/835-30-50-1> Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic835-SubTopic30-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482925/835-30-45-2> Details Name: us-
 gaap_DebtInstrumentFaceAmount Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instant X- Definition Contractual
 interest rate for funds borrowed, under the debt agreement. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(22\)\(a\)\(1\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(22)(a)(1))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic470-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1B-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481139/470-20-50-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic470-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1B-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481139/470-20-50-1B) Details Name: us-
 gaap_DebtInstrumentInterestRateStatedPercentage Namespace Prefix: us- gaap_ Data Type: dtr- types: percentItemType Balance Type: na Period Type: instant X-
 Definition Amount of the required periodic payments applied to interest. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(22\)\)-SubTopic10-Topic210-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(22))-SubTopic10-Topic210-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Details Name: us- gaap_DebtInstrumentPeriodicPaymentInterest Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance
 Type: debit Period Type: duration X- Definition Amount, after accumulated amortization, of debt issuance costs. Includes, but is not limited to, legal, accounting,
 underwriting, printing, and registration costs. References Reference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic835-SubTopic30-NameAccountingStandardsCodification-Section45-Paragraph1A-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482925/835-30-45-1A> Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic835-SubTopic30-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482925/835-30-45-2> Reference 3: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic835-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482900/835-30-50-1> Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic470-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1D-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481139/470-20-50-1D](http://www.xbrl.org/2009/role/commonPracticeRef-Topic470-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1D-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481139/470-20-50-1D) Details Name: us- gaap_DeferredFinanceCostsNet Namespace Prefix: us- gaap_ Data
 Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X- Definition Amount of interest payable on debt, including, but not limited to, trade payables.
 References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic942-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.9-03\(15\)\(5\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478546/942-210-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic942-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.9-03(15)(5))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478546/942-210-S99-1) Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic944-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.7-03\(a\)\(15\)\(a\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic944-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.7-03(a)(15)(a))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478777/944-210-S99-1) Details Name: us- gaap_InterestPayableCurrentAndNoncurrent Namespace Prefix:
 us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instant X- Definition The carrying value as of the balance sheet date of the current and
 noncurrent portions of long- term obligations drawn from a line of credit, which is a bank's commitment to make loans up to a specific amount. Examples of items that
 might be included in the application of this element may consist of letters of credit, standby letters of credit, and revolving credit arrangements, under which borrowings
 can be made up to a maximum amount as of any point in time conditional on satisfaction of specified terms before, as of and after the date of drawdowns on the line.

Includes short-term obligations that would normally be classified as current liabilities but for which (a) postbalance sheet date issuance of a long term obligation to refinance the short term obligation on a long term basis, or (b) the enterprise has entered into a financing agreement that clearly permits the enterprise to refinance the short-term obligation on a long term basis and the following conditions are met (1) the agreement does not expire within 1 year and is not cancelable by the lender except for violation of an objectively determinable provision, (2) no violation exists at the BS date, and (3) the lender has entered into the financing agreement is expected to be financially capable of honoring the agreement. ReferencesReference 1: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(22\)\)-SubTopic10-Topic210-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference2:https://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic942-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.9-03\(16\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference3:http://www.xbrl.org/2009/role/commonPracticeRef-Topic944-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.7-03\(a\)\(16\)\(a\)\(2\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478777/944-210-S99-1](http://asc.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(22))-SubTopic10-Topic210-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference2:https://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic942-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.9-03(16))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference3:http://www.xbrl.org/2009/role/commonPracticeRef-Topic944-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.7-03(a)(16)(a)(2))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478777/944-210-S99-1) Details Name: us-gaap_LineOfCredit Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX- DefinitionThe cash outflow to acquire an agreement for an unconditional promise by the maker to pay the entity (holder) a definite sum of money at a future date. Such amount may include accrued interest receivable in accordance with the terms of the note. The note also may contain provisions including a discount or premium, payable on demand, secured, or unsecured, interest bearing or noninterest bearing, among myriad other features and characteristics. ReferencesReference 1: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(28\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference2:https://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(29\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference3:http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.3-04\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://asc.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section45-Paragraph13-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-13DetailsName:us-gaap_PaymentsToAcquireNotesReceivableNamespacePrefix:us-gaap_DataType:xbrli:monetaryItemTypeBalanceType:creditPeriodType:durationX-DefinitionThecashinflowduringthepriodfromadditionalborrowingsinaggregatedebit.Includesproceedsfromshort-termandlong-termdebt.ReferencesReference1:http://www.xbrl.org/2009/role/commonPracticeRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph14-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-14DetailsName:us-gaap_ProceedsFromIssuanceOfDebtNamespacePrefix:us-gaap_DataType:xbrli:monetaryItemTypeBalanceType:debitPeriodType:durationX-DefinitionNumberofsharesofstockissuedduringthepriodpursuanttoacquisitions.ReferencesReference1:http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(28))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference2:https://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(29))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference3:http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.3-04)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1) Details Name: us-gaap_StockIssuedDuringPeriodSharesAcquisitions Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: durationX- DefinitionAmount of debt available until 18 months following closing date under debt instrument. ReferencesNo definition available. Details Name: zvrz_DebtInstrumentAvailableAmountUntil18MonthsFollowingClosingDate Namespace Prefix: zvrz_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX- DefinitionMaximum each drawing for amount available under debt instrument to draw after 18 months of debt closing date. ReferencesNo definition available. Details Name: zvrz_DebtInstrumentAvailableAmountUntil18MonthsFollowingClosingDateMaximumEachDrawing Namespace Prefix: zvrz_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAmount of debt available to be drawn until December 31, 2024. ReferencesNo definition available. Details Name: zvrz_DebtInstrumentAvailableAmountUntilDecember312024 Namespace Prefix: zvrz_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX- DefinitionPercentage points added to the reference rate to compute the variable rate on the debt instrument when performance benchmark meet. ReferencesNo definition available. Details Name: zvrz_DebtInstrumentBasisSpreadOnVariableRateWhenPerformanceBenchmarkMeet Namespace Prefix: zvrz_Data Type: dtr-types:percentItemType Balance Type: na Period Type: durationX- DefinitionPercentage points added to the reference rate to compute the variable rate on the debt instrument when performance benchmark meet in next year. ReferencesNo definition available. Details Name: zvrz_DebtInstrumentBasisSpreadOnVariableRateWhenPerformanceBenchmarkMeetInNextYear Namespace Prefix: zvrz_Data Type: dtr-types:percentItemType Balance Type: na Period Type: durationX- DefinitionFloor rate of debt instrument. ReferencesNo definition available. Details Name: zvrz_DebtInstrumentFloorRate Namespace Prefix: zvrz_Data Type: dtr-types:percentItemType Balance Type: na Period Type: instantX- DefinitionIncrease in the contractual interest rate for funds borrowed, under the debt agreement, if unpaid within six months. ReferencesNo definition available. Details Name: zvrz_DebtInstrumentInterestRateIncreaseInStatedPercentagelfUnpaidWithinSixMonths Namespace Prefix: zvrz_Data Type: dtr-types:percentItemType Balance Type: na Period Type: instantX- DefinitionContractual interest rate for funds borrowed, under the debt agreement, if unpaid within six months. ReferencesNo definition available. Details Name: zvrz_DebtInstrumentInterestRateStatedPercentagelfUnpaidWithinSixMonths Namespace Prefix: zvrz_Data Type: dtr-types:percentItemType Balance Type: na Period Type: instantX- DefinitionThe consecutive trading days for calculation of VWAP for interest to be paid in shares on debt instrument. ReferencesNo definition available. Details Name: zvrz_DebtInstrumentInterestSharesConsecutiveTradingDaysForCalculationOfVWAP Namespace Prefix: zvrz_Data Type: xbrli:durationItemType Balance Type: na Period Type: durationX- DefinitionMaximum amount of interest payment allowed under debt instrument as a percentage. ReferencesNo definition available. Details Name: zvrz_DebtInstrumentMaximumInterestPaymentPercentage Namespace Prefix: zvrz_Data Type: dtr-types:percentItemType Balance Type: na Period Type: instantX- DefinitionMinimum cash balance required for debt instrument to be active. ReferencesNo definition available. Details Name: zvrz_DebtInstrumentMinimumCashBalance Namespace Prefix: zvrz_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of performance benchmark of net product sales under debt instrument. ReferencesNo definition available. Details Name: zvrz_DebtInstrumentNetProductSalesPerformanceBenchmark Namespace Prefix: zvrz_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAmount of performance benchmark of net product sales in next year under debt instrument. ReferencesNo definition available. Details Name: zvrz_DebtInstrumentNetProductSalesPerformanceBenchmarkInNextYear Namespace Prefix: zvrz_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instantX- DefinitionPercentage of investments outstanding for maximum borrowing capacity of the debt instrument. ReferencesNo definition available. Details Name: zvrz_LineOfCreditFacilityMaximumBorrowingCapacityPercentageOfInvestments Namespace Prefix: zvrz_Data Type: dtr-types:percentItemType Balance Type: na Period Type: instantX- Details Name: us-gaap_LineOfCreditFacilityAxis = zvrz_WellsFargoBankNaMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_VariableRateAxis = us-gaap_PrimeRateMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_RangeAxis = srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_AssetAcquisitionAxis = zvrz_SWKLoansMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_DebtInstrumentAxis = zvrz_NantahalaNoteMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_DebtInstrumentAxis = zvrz_TermLoansUnderCreditAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_VariableRateAxis = us-gaap_SecuredOvernightFinancingRateSofrMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note I- Debt Obligations- Aggregate Principal Amount (Details)- USD (\$) \$ in Thousands Dec. 31, 2024 Dec. 31, 2023Unamortized original issue (discount) premium \$ (921) \$ 148Less: debt issuance costs (1, 127) (82) Notes Payable 59, 504 5, 066Notes Payable Excluding Secured Promissory Note [Member] Notes payable 61, 552Nantahala Note [Member] Notes payable \$ 0 \$ 5, 000X- DefinitionAmount, before unamortized (discount) premium and debt issuance costs, of long-term debt. Includes, but is not limited to, notes payable, bonds payable, commercial loans, mortgage loans, convertible debt, subordinated debt and other types of debt. ReferencesReference 1:

asc.fashb.org/1943274/2147481139/470-20-50-1D Details Name: us-gaap_DeferredFinanceCostsNet Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionIncluding the current and noncurrent portions, aggregate carrying amount of all types of notes payable, as of the balance sheet date, with initial maturities beyond one year or beyond the normal operating cycle, if longer. ReferencesReference 1:

(Details Textual)- USD (\$) \$ in Thousands 1 Months Ended 12 Months Ended Mar. 20, 2012 Jun. 30, 2023 Dec. 31, 2024 Dec. 31, 2023 May 07, 2021 Revenue from Contract with Customer, Including Assessed Tax \$ 23, 612 \$ 27, 461 Arimoclomol Purchase Agreement [Member] Contract with Customer, Liability, Revenue Recognized 9, 100 8, 700 Contract with Customer, Clawback Liability 5, 700 5, 100 Asset Acquisition, Consideration Transferred, Estimated Reserve Liability 12, 600 12, 200 License [Member] AZSTARYS License Agreement [Member] Contract with Customer, Liability, Revenue Recognized \$ 15, 000 4, 300 18, 500 Deferred Revenue OLPRUVA [Member] Revenue from Contract with Customer, Including Assessed Tax MIPLYFFA [Member] Revenue from Contract with Customer, Including Assessed Tax \$ 10, 100 Commave Therapeutics SA [Member] [License [Member] [AZSTARYS License Agreement [Member] Revenue Recognition, Milestone Method, Additional Revenue to be Recognized \$ 590, 000 Aquestive Therapeutics [Member] [License [Member] [AZSTARYS License Agreement [Member] Royalty Revenue, Percent 10. 00 % 10. 00 % Relief Therapeutics [Member] [License [Member] Contract with Customer, Liability, Revenue Recognized \$ 0 Royalty Revenue, Percent 10. 00 % Contract with Customer, Liability \$ 0 \$ 0 X- Definition Amount of obligation to transfer good or service to customer for which consideration has been received or is receivable. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic606-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479837/606-10-45-1> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic606-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph8-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479806/606-10-50-8](http://www.xbrl.org/2003/role/disclosureRef-Topic606-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph8-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479806/606-10-50-8) Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic606-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479837/606-10-45-2> Details Name: us- gaap_ ContractWithCustomerLiability Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- Definition Amount of revenue recognized that was previously included in balance of obligation to transfer good or service to customer for which consideration from customer has been received or is due. References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic606-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph8-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479806/606-10-50-8](http://www.xbrl.org/2003/role/disclosureRef-Topic606-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph8-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479806/606-10-50-8) Details Name: us- gaap_ ContractWithCustomerLiabilityRevenueRecognized Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- Definition Amount of deferred income and obligation to transfer product and service to customer for which consideration has been received or is receivable. References Reference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(26\)\(c\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(26)(c))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Details Name: us- gaap_ DeferredRevenue Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- Definition Amount, including tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue- producing transaction, including, but not limited to, sales, use, value- added and excise. References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph41-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-41](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph41-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-41) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic270-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(i\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482964/270-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic270-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(i)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482964/270-10-50-1) Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph\(ee\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph(ee)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32) Reference 4: [http://asc.fasb.org/us-gaap/role/ref/otherTransitionRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32](http://asc.fasb.org/us-gaap/role/ref/otherTransitionRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32) Reference 5: [http://asc.fasb.org/us-gaap/role/ref/otherTransitionRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32](http://asc.fasb.org/us-gaap/role/ref/otherTransitionRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph32-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-32) Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic924-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SABTopic11.L\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479941/924-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic924-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SABTopic11.L)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479941/924-10-S99-1) Reference 7: <http://www.xbrl.org/2003/role/disclosureRef-Topic606-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph5-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479806/606-10-50-5> Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph30-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-30](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph30-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-30) Reference 9: <http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph42-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-42> Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22) Reference 11: <http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-40> Reference 12: [http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22](http://www.xbrl.org/2003/role/disclosureRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph22-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482810/280-10-50-22) Reference 13: [http://www.xbrl.org/2003/role/disclosureRef-Topic606-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph4-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479806/606-10-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic606-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph4-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479806/606-10-50-4) Details Name: us- gaap_ RevenueFromContractWithCustomerIncludingAssessedTax Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- Definition Represents estimated reserve liability for asset acquisition consideration transferred. References No definition available. Details Name: zvrz_AcquisitionConsiderationTransferredEstimatedReserveLiability Namespace Prefix: zvrz_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- Definition Represents clawback liability for contract with customer References No definition available. Details Name: zvrz_ContractWithCustomerClawbackLiability Namespace Prefix: zvrz_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- Definition The amount of additional consideration to be recognized for the milestone or milestones. References No definition available. Details Name: zvrz_RevenueRecognitionMilestoneMethodAdditionalRevenueToBeRecognized Namespace Prefix: zvrz_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- Definition Represents the royalty revenue expressed as a percentage. References No definition available. Details Name: zvrz_RoyaltyRevenuePercent Namespace Prefix: zvrz_ Data Type: dtr- types: percentItemType Balance Type: na Period Type: durationX- Details Name: us- gaap_ AssetAcquisitionAxis = zvrz_ArimoclomolPurchaseAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_ProductOrServiceAxis = us- gaap_ LicenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us- gaap_TypeOfArrangementAxis = zvrz_AZSTARYSLicenseAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_ProductOrServiceAxis = zvrz_OlpruvaMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_ProductOrServiceAxis = zvrz_MIPLYFFAMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_CounterpartyNameAxis = zvrz_CommaveTherapeuticsSAMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_CounterpartyNameAxis = zvrz_AquestiveTherapeuticsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_CounterpartyNameAxis = zvrz_ReliefTherapeuticsMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note K- Commitments and Contingencies (Details Textual)- USD (\$) \$ in Thousands 3 Months Ended Jun. 30, 2024 Dec. 31, 2024 Dec. 31, 2023 Loss Contingency Accrual \$ 0 \$ 0 Litigation Related to Merger [Member] Payments for Legal Settlements \$ 300 AZSTARYS License Agreement [Member] Loss Contingency Accrual \$ 0 X- Definition Amount of loss contingency liability. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic450-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483076/450-20-50-1> Reference 2: <http://www.xbrl.org/2003/role/recommendedDisclosureRef-Topic450-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph10-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483076/450-20-50-10> Details Name: us- gaap_ LossContingencyAccrualAtCarryingValue Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- Definition The amount of cash paid for the settlement of litigation or for other legal issues during the period. References Reference 1: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph25-Subparagraph\(g\)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-25](http://asc.fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph25-Subparagraph(g)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-25) Details Name: us- gaap_ PaymentsForLegalSettlements Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- Details Name: srt_LitigationCaseAxis = zvrz_LitigationRelatedToMergerMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_LitigationCaseAxis = zvrz_AZSTARYSLicenseAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note L- Stock and Warrants (Details Textual)- USD (\$) \$ / shares in Units, \$ in Thousands 1 Months Ended 12 Months Ended Nov. 22, 2023 Nov. 30, 2023 Dec. 31, 2024 Dec. 31, 2023 Sep. 30, 2024 Dec. 31, 2022 Common Stock, Shares Authorized (in shares) 250, 000, 000 250, 000, 000 Common Stock, Shares Issued (in shares) 55, 246, 401 413, 110, 360 Common Stock, Shares Outstanding (in shares) 53, 670, 709 41, 534, 668 34, 540, 304 Preferred Stock, Shares Authorized (in shares) 10, 000, 000 10, 000, 000 Preferred Stock, Shares Issued (in shares) Class of Warrant or Right, Outstanding (in shares) 5, 483, 537 Stock Issued During Period, Shares, Acquisitions (in shares) 1, 382, 489 7, 530, 509 Common Stock, Par or Stated Value Per Share (in dollars per share) \$ 0. 0001 \$ 0. 0001 \$ 0. 0001 Stock Issued During Period, Shares, New Issues (in shares) 10, 615, 385 Derivative and Warrant Liability, Noncurrent \$ 17, 804 \$ 16, 100 Fair Value Adjustment of Put Option, Net of Tax \$ 1, 700 \$ (1, 400) Preferred Stock, Shares Outstanding (in shares) Acer Warrants [Member] Proceeds from Warrant Exercises \$ 6, 000 Class of Warrants or Right, Exercised During Period (in shares) Acer Warrants [Member] [Common Stock [Member] Class of Warrant or Right, Number of Securities Called by Warrants or Rights (in shares) 1, 382, 489 Shares and Warrants Issued, Price Per Share (in dollars per share) \$ 4. 34 The Investor Warrant [Member] Class of Warrant or Right, Number of Securities Called by Warrants or Rights (in shares) 2, 920, 306 2, 920, 306 Stock Issued During Period, Shares, New Issues (in shares) 917, 934 917, 934 X- Definition Number of securities into which the class of warrant or right may be converted. For example, but not limited to, 500, 000 warrants may be converted into 1, 000, 000 shares. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic505-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-3> Details Name: us- gaap_ ClassOfWarrantOrRightNumberOfSecuritiesCalledByWarrantsOrRights Namespace Prefix: us- gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: instantX- Definition Number of warrants or rights outstanding. References No definition available. Details Name: us- gaap_ ClassOfWarrantOrRightOutstanding

Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: instantX- DefinitionFace amount or stated value per share of common stock. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1> Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types: perShareItemType Balance Type: na Period Type: instantX- DefinitionThe maximum number of common shares permitted to be issued by an entity's charter and bylaws. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-04 \(16\) \(a\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-04 (16) (a)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147479170/946-210-S99-1> Details Name: us-gaap_CommonStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: instantX- DefinitionTotal number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1> Details Name: us-gaap_CommonStockSharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: instantX- DefinitionNumber of shares of common stock outstanding. Common stock represent the ownership interest in a corporation. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-SubTopic 10-Topic 505-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-SubTopic 10-Topic 505-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 6-05 \(4\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 6-05 (4)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147479170/946-210-S99-2>Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(4\) \(b\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (4) (b)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-04 \(16\) \(a\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-04 (16) (a)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147479170/946-210-S99-1>Reference 6: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(7\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (7)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3> Details Name: us-gaap_CommonStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: instantX- DefinitionThe maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(28\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (28)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-04 \(16\) \(a\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-04 (16) (a)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147479170/946-210-S99-1> Details Name: us-gaap_PREFERREDStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: instantX- DefinitionNumber of shares issued for nonredeemable preferred shares and preferred shares redeemable solely at option of issuer. Includes, but is not limited to, preferred shares issued, repurchased, and held as treasury shares. Excludes preferred shares classified as debt. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(28\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (28)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 6-05 \(4\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 6-05 (4)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3>Reference 3: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(4\) \(b\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (4) (b)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3>Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 6-04 \(16\) \(a\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 6-04 (16) (a)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147479170/946-210-S99-1>Reference 5: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(7\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (7)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3> Details Name: us-gaap_PREFERREDStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: instantX- DefinitionThe cash inflow associated with the amount received from holders exercising their stock warrants. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 14-Subparagraph \(a\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 230-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 14-Subparagraph (a)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147482740/230-10-45-14> Details Name: us-gaap_ProceedsFromWarrantExercises Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionNumber of shares of stock issued during the period pursuant to acquisitions. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(28\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (28)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 3-04\) \(a\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 3-04) (a)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147480008/505-10-S99-1> Details Name: us-gaap_StockIssuedDuringPeriodSharesAcquisitions Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: durationX- DefinitionNumber of new stock issued during the period. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-SubTopic 10-Topic 505-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(28\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-SubTopic 10-Topic 505-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (28)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147481112/505-10-S99-1>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(28\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (28)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 6-05 \(4\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 6-05 (4)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147479170/946-210-S99-1>Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-09 \(4\) \(b\)\)](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-09 (4) (b)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147479134/946-220-S99-3>Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph \(SX 210. 6-03 \(i\) \(1\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic 946-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 3-Subparagraph (SX 210. 6-03 (i) (1)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147479886/946-10-S99-3>Reference 6: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 3-04\) \(a\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 3-04) (a)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147480008/505-10-S99-1> Details Name: us-gaap_StockIssuedDuringPeriodSharesNewIssues Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: durationX- DefinitionThe number of warrants or rights exercised during period. ReferencesNo definition available. Details Name: zvrz_ClassOfWarrantsOrRightExercisedDuringPeriod Namespace Prefix: zvrz_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: durationX- DefinitionNoncurrent Carrying amount of derivative and warrant liability. ReferencesNo definition available. Details Name: zvrz_DerivativeAndWarrantLiabilityNoncurrent Namespace Prefix: zvrz_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAfter tax amount of expense (income) related to adjustment to fair value of put option. ReferencesNo definition available. Details Name: zvrz_FairValueAdjustmentOfPutOptionNetOfTax Namespace Prefix: zvrz_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe price per share of shares and warrants issued. ReferencesNo definition available. Details Name: zvrz_SharesAndWarrantsIssuedPricePerShare Namespace Prefix: zvrz_ Data Type: dtr-types: perShareItemType Balance Type: na Period Type: instantX- Details Name: us-gaap_ClassOfWarrantOrRightAxis = zvrz_AcerWarrantsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_StatementEquityComponentsAxis = us-gaap_CommonStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_ClassOfWarrantOrRightAxis = zvrz_TheInvestorWarrantMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note L- Stock and Warrants- Reserved Authorized Shares of Common Stock for Future Issuance (Details)- shares Dec. 31, 2024 Dec. 31, 2023Common shares reserved for future issuance (in shares) 19, 804, 372 16, 695, 928Warrant [Member] Common shares reserved for future issuance (in shares) 5, 483, 537 5, 603, 729Share- Based Payment Arrangement [Member] Common shares reserved for future issuance (in shares) 7, 789, 658 8, 023, 142Possible Future Issuances Under Equity Incentive Plans [Member] Common shares reserved for future issuance (in shares) 5, 383, 165 1, 728, 885Possible Future Issuances Under Employee Stock Purchase Plans [Member] Common shares reserved for future issuance (in shares) 1, 148, 012 1, 340, 172X- DefinitionAggregate number of common shares reserved for future issuance. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5-02 \(29\)\)](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5-02 (29)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147480566/210-10-S99-1>

1943274 / 2147480566 / 210-10-S99-1 Details Name: us-gaap_CommonStockCapitalSharesReservedForFutureIssuance Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instantX- Details Name: us-gaap_ClassOfWarrantOrRightAxis = us-gaap_WarrantMember Namespace Prefix: Data Type: na Balance Type: na Balance Type: Period Type: X- Details Name: us-gaap_AwardTypeAxis = us-gaap_StockCompensationPlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_AwardTypeAxis = us-gaap_PossibleFutureIssuancesUnderEquityIncentivePlansMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_AwardTypeAxis = us-gaap_PossibleFutureIssuancesUnderEmployeeStockPurchasePlansMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note L- Stock and Warrants- Common Stock Activity (Details)- shares 1 Months Ended 12 Months Ended 43 Months Ended Nov. 30, 2023 Dec. 31, 2023 Dec. 31, 2024 Balance (in shares) 41, 534, 668 34, 540, 304 Common stock issued as compensation to third-parties (in shares) 92, 988 44, 791 Common stock issued as a result of stock warrants exercised (in shares) Common stock issued as a result of stock options exercised (in shares) 469, 563 7, 500 Common stock repurchased as a result of the Stock Repurchase Program (in shares) (665, 739) Common stock issued in connection with the Merger (Note T) (in shares) 1, 382, 489 7, 530, 509 Common stock issued as a result of the Employee Stock Purchase Plan (in shares) 192, 160 77, 193 351, 988 Common stock issued in connection with the Public Offering (Note B) (in shares) 10, 615, 385 Common stock issued in connection with restricted stock units (in shares) 218, 000 Common stock issued in connection with vesting of performance-based awards (in shares) 547, 945 Balance (in shares) 53, 670, 709 41, 534, 668 53, 670, 709X- Definition Number of shares of common stock outstanding. Common stock represent the ownership interest in a corporation. References Reference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-SubTopic10-Topic505-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-2> Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(29\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(29))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph\(SX210.6-05\(4\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479170/946-210-S99-2](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph2-Subparagraph(SX210.6-05(4))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479170/946-210-S99-2) Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.6-09\(4\)\(b\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.6-09(4)(b))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479134/946-220-S99-3) Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.6-04\(16\)\(a\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479170/946-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.6-04(16)(a))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479170/946-210-S99-1) Reference 6: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.6-09\(7\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.6-09(7))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479134/946-220-S99-3) Details Name: us-gaap_CommonStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: instantX- Definition Number of shares of stock issued during the period pursuant to acquisitions. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(28\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(28))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(29\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(29))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.3-04\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.3-04)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1) Details Name: us-gaap_StockIssuedDuringPeriodSharesAcquisitions Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: durationX- Definition Number of shares issued during the period as a result of an employee stock purchase plan. References Reference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-SubTopic10-Topic505-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-2> Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(28\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(28))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(29\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(29))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 4: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.3-04\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.3-04)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1) Details Name: us-gaap_StockIssuedDuringPeriodSharesEmployeeStockPurchasePlans Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: durationX- Definition Number of shares issued in lieu of cash for services contributed to the entity. Number of shares includes, but is not limited to, shares issued for services contributed by vendors and founders. References No definition available. Details Name: us-gaap_StockIssuedDuringPeriodSharesIssuedForServices Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: durationX- Definition Number of new stock issued during the period. References Reference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-SubTopic10-Topic505-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-2> Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(28\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(28))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(29\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(29))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic505-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478448/946-505-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic505-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478448/946-505-50-2) Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.6-09\(4\)\(b\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479134/946-220-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic220-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.6-09(4)(b))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479134/946-220-S99-3) Reference 6: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.6-03\(i\)\(1\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479886/946-10-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.6-03(i)(1))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479886/946-10-S99-3) Reference 7: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.3-04\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.3-04)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1) Details Name: us-gaap_StockIssuedDuringPeriodSharesNewIssues Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: durationX- Definition Total number of shares issued during the period, including shares forfeited, as a result of Restricted Stock Awards. References Reference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-SubTopic10-Topic505-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-2> Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.3-04\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.3-04)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1) Details Name: us-gaap_StockIssuedDuringPeriodSharesRestrictedStockAwardGross Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: durationX- Definition Number, after forfeiture, of shares or units issued under share-based payment arrangement. Excludes shares or units issued under employee stock ownership plan (ESOP). References Reference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-SubTopic10-Topic505-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-2> Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(28\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(28))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.3-04\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.3-04)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1) Details Name: us-gaap_StockIssuedDuringPeriodSharesShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: durationX- Definition Number of share options (or share units) exercised during the current period. References Reference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-SubTopic10-Topic505-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-2> Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(28\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(28))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(29\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(29))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(c\)\(i\)\(iv\)\(02\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic718-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(c)(i)(iv)(02)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480429/718-10-50-2) Reference 5: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.3-04\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.3-04)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1) Details Name: us-gaap_StockIssuedDuringPeriodSharesStockOptionsExercised Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: durationX- Definition Number of shares that have been repurchased during the period and are being held in treasury. References Reference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph2-SubTopic10-Topic505-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-2> Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.5-02\(29\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic210-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.5-02(29))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.3-04\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic505-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.3-04)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480008/505-10-S99-1) Details Name: us-gaap_TreasuryStockSharesAcquired Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItem Type Balance Type: na Period Type: duration Note M- Stock-based Compensation (Details Textual)- USD (\$) \$ / shares in Units, \$ in Thousands 1 Months Ended 12 Months Ended 43 Months Ended Jan. 01, 2025 Jun. 30, 2021 Dec. 31, 2023 Dec. 31, 2024 Sep. 30, 2024 Share-Based Compensation Arrangement by Share-Based

Payment Award, Options, Exercises in Period (in shares) 469, 563 7, 500 Share- Based Payment Arrangement, Expense \$ 14, 906 \$ 5, 954 Share- Based Payment Arrangement, Accelerated Cost \$ 2, 400 Severance Costs Recognized \$ 1, 200 Employee Stock Purchase Plan, Maximum Number of Issuable Shares (in shares) 1, 500, 000 Stock Issued During Period, Shares, Employee Stock Purchase Plans (in shares) 192, 160 77, 193 351, 988 Share- Based Compensation Arrangement by Share- Based Payment Award, Options, Grants in Period, Weighted Average Grant Date Fair Value (in dollars per share) \$ 5. 74 \$ 3. 65 Share- Based Compensation Arrangement by Share- Based Payment Award, Options, Vested in Period, Fair Value \$ 8, 100 \$ 9, 200 Share- Based Payment Arrangement, Nonvested Award, Cost Not yet Recognized, Amount 9, 500 \$ 9, 500 Performance Shares | Member | Share- Based Payment Arrangement, Expense \$ 2, 500 \$ 0 2014 Equity Incentive Plan | Member | Share- based Compensation Arrangement by Share- based Payment Award, Number of Additional Shares Authorized (in shares) 4, 900, 000 Share- Based Compensation Arrangement by Share- Based Payment Award, Number of Shares Authorized (in shares) 9, 932, 883 Share- based Compensation Arrangement by Share- based Payment Award, Number of Shares Reserved for Issuance, Incremental Percentage of Capital Stock Outstanding 4. 00 % Increase in Common Stock Reserved for Issuance (in shares) 2, 146, 828 Share- Based Compensation Arrangement by Share- Based Payment Award, Options, Exercises in Period (in shares) 1, 177, 545 7, 500 The 2023 Plan | Member | Share- Based Compensation Arrangement by Share- Based Payment Award, Number of Shares Authorized (in shares) 4, 500, 000 4, 500, 000 X- Definition Amount of expense for award under share- based payment arrangement. Excludes amount capitalized. References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SAB Topic 14. F\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479830/718-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(h\) \(1\) \(i\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Details Name: us-gaap_AllocatedShareBasedCompensationExpense](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SAB Topic 14. F)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479830/718-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (h) (1) (i)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Details Name: us-gaap_AllocatedShareBasedCompensationExpense) Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- Definition Amount of cost not yet recognized for nonvested award under share- based payment arrangement. References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(i\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Details Name: us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognized](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (i)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Details Name: us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognized) Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- Definition Amount of additional cost recognized for award under share- based payment arrangement from occurrence of event accelerating recognition of cost. References No definition available. Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardAcceleratedCompensationCost Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- Definition Number of additional shares authorized for issuance under share- based payment arrangement. References No definition available. Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardNumberOfAdditionalSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: durationX- Definition Number of shares authorized for issuance under share- based payment arrangement. References Reference 1: [http://www.xbrl.org/2003/role/exampleRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(a\) \(3\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardNumberOfSharesAuthorized](http://www.xbrl.org/2003/role/exampleRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a) (3)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardNumberOfSharesAuthorized) Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: instantX- Definition The weighted average grant- date fair value of options granted during the reporting period as calculated by applying the disclosed option pricing methodology. References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(d\) \(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodWeightedAverageGrantDateFairValue](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (d) (1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodWeightedAverageGrantDateFairValue) Namespace Prefix: us-gaap_ Data Type: dtr- types: perShareItemType Balance Type: na Period Type: durationX- Definition Fair value of options vested. Excludes equity instruments other than options, for example, but not limited to, share units, stock appreciation rights, restricted stock. References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(d\) \(2\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedInPeriodFairValueI](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (d) (2)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedInPeriodFairValueI) Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- Definition Number of shares issued during the period as a result of an employee stock purchase plan. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-SubTopic 10-Topic 505-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5- 02 \(28\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5- 02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 3- 04\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Details Name: us-gaap_StockIssuedDuringPeriodSharesEmployeeStockPurchasePlans](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-SubTopic 10-Topic 505-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5- 02 (28))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5- 02 (29))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 3- 04)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Details Name: us-gaap_StockIssuedDuringPeriodSharesEmployeeStockPurchasePlans) Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: durationX- Definition Number of share options (or share units) exercised during the current period. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-SubTopic 10-Topic 505-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5- 02 \(28\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 5- 02 \(29\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(1\) \(iv\) \(02\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 3- 04\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Details Name: us-gaap_StockIssuedDuringPeriodSharesStockOptionsExercised](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Section 50-Paragraph 2-SubTopic 10-Topic 505-Publisher FASB-URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5- 02 (28))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 5- 02 (29))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (1) (iv) (02)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 3- 04)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Details Name: us-gaap_StockIssuedDuringPeriodSharesStockOptionsExercised) Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: durationX- Definition Maximum number of shares that may be issued under Employee Stock Purchase Plan. References No definition available. Details Name: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SAB Topic 14. F\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479830/718-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(h\) \(1\) \(i\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Details Name: us-gaap_AllocatedShareBasedCompensationExpense](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SAB Topic 14. F)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479830/718-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (h) (1) (i)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Details Name: us-gaap_AllocatedShareBasedCompensationExpense) Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- Details Name: us-gaap_IncomeStatementLocationAxis = us-gaap_ResearchAndDevelopmentExpenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_IncomeStatementLocationAxis = us-gaap_GeneralAndAdministrativeExpenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note M- Stock- based Compensation- Black- Scholes Option- pricing Model (Details) 12 Months Ended Dec. 31, 2024 Dec. 31, 2023 Expected dividend yield 0. 00 % 0. 00 % Minimum | Member | Risk- free interest rate 3. 82 % 3. 34 % Expected term (in years) (Year) 5 years 6 months 5 years 6 months Expected volatility 89. 85 % 89. 48 % Maximum | Member | Risk- free interest rate 4. 50 % 4. 79 % Expected term (in years) (Year) 6 years 3 months 10 years Expected volatility 91. 32 % 93. 67 % X- Definition The estimated dividend rate (a percentage of the share price) to be paid (expected dividends) to holders of the underlying shares over the option's term. References Reference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(f\) \(2\) \(iii\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedDividendRate](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (f) (2) (iii)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedDividendRate) Namespace Prefix: us-gaap_ Data Type: dtr- types: percentItemType Balance Type: na Period Type: durationX- Definition The estimated measure of the percentage by which a share price is expected to fluctuate during a period. Volatility also may be defined as a probability- weighted measure of the dispersion of returns about the mean. The volatility of a share price is the standard deviation of the continuously compounded rates of return on the share over a specified period. That is the same as the standard deviation of the differences in

the natural logarithms of the stock prices plus dividends, if any, over the period. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(f\) \(2\) \(ii\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (f) (2) (ii)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedVolatilityRate Namespace Prefix: us-gaap_ Data Type: dtr- types: percentItem Type Balance Type: na Period Type: durationX- DefinitionThe risk-free interest rate assumption that is used in valuing an option on its own shares. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(f\) \(2\) \(iv\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (f) (2) (iv)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsRiskFreeInterestRate Namespace Prefix: us-gaap_ Data Type: dtr- types: percentItem Type Balance Type: na Period Type: durationX- DefinitionExpected term of award under share-based payment arrangement, in 'PnYnMnDnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(f\) \(2\) \(i\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (f) (2) (i)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardFairValueAssumptionsExpectedTerm1 Namespace Prefix: us-gaap_ Data Type: xbrli: durationItem Type Balance Type: na Period Type: durationX- Details Name: srt_RangeAxis = srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_RangeAxis = srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note M- Stock-based Compensation- Schedule of Stock Option Activity (Details)- USD (\$ S) / shares in Units, \$ in Thousands 12 Months Ended Dec. 31, 2024 Dec. 31, 2023 Common stock issued as a result of stock options exercised (in shares) 469, 563 7, 500 Outstanding, number of options (in shares) 5, 951, 400 Exercisable, number of options (in shares) 2, 399, 305 Incentive Stock Plan, A & R 2014 Plan, and 2023 Plan | Member | Outstanding, number of options (in shares) 7, 275, 197 Outstanding, weighted average exercise price (in dollars per share) \$ 8.4 Outstanding, weighted average remaining contractual term (Year) 6 years 9 months 14 days 8 years 8 months 4 days Outstanding, aggregate intrinsic value \$ 17, 448 \$ 11, 089 Granted, number of options (in shares) 962, 700 Granted, weighted average exercise price (in dollars per share) \$ 5.74 Common stock issued as a result of stock options exercised (in shares) 1, 162, 705 Exercised or released, weighted average exercise price (in dollars per share) \$ 5.3 Canceled or forfeited, number of options (in shares) 314, 250 Canceled or forfeited, weighted average exercise price (in dollars per share) \$ 4.9 Canceled or forfeited, aggregate intrinsic value \$ 0 Expired, number of options (in shares) 809, 542 Expired, weighted average exercise price (in dollars per share) \$ 22.52 Outstanding, number of options (in shares) 5, 951, 400 7, 275, 197 Outstanding, weighted average exercise price (in dollars per share) \$ 7.25 \$ 8.4 Exercisable, number of options (in shares) 2, 399, 305 Exercisable, weighted average exercise price (in dollars per share) \$ 10.25 Exercisable, weighted average remaining contractual term (Year) 4 years 5 months 19 days Exercisable, aggregate intrinsic value \$ 6, 302 Vested and expected to vest, number of options (in shares) 5, 764, 166 Vested and expected to vest, weighted average exercise price (in dollars per share) Vested and expected to vest, weighted average remaining contractual term (Year) 6 years 9 months Vested and expected to vest, aggregate intrinsic value \$ 16, 783 X- DefinitionThe number of shares into which fully or partially vested stock options outstanding as of the balance sheet date can be currently converted under the option plan. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(1\) \(iii\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (1) (iii)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExercisableNumber Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItem Type Balance Type: na Period Type: instantX- DefinitionThe weighted-average price as of the balance sheet date at which grantees can acquire the shares reserved for issuance on vested portions of options outstanding and currently exercisable under the stock option plan. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(1\) \(iii\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (1) (iii)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExercisableWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr- types: perShareItem Type Balance Type: na Period Type: instantX- DefinitionNumber of options or other stock instruments for which the right to exercise has lapsed under the terms of the plan agreements. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(1\) \(iv\) \(04\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (1) (iv) (04)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExpirationsInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItem Type Balance Type: na Period Type: durationX- DefinitionThe number of shares under options that were cancelled during the reporting period as a result of occurrence of a terminating event specified in contractual agreements pertaining to the stock option plan. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(1\) \(iv\) \(03\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (1) (iv) (03)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsForfeituresInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItem Type Balance Type: na Period Type: durationX- DefinitionGross number of share options (or share units) granted during the period. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(1\) \(iv\) \(01\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (1) (iv) (01)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsGrantsInPeriodGross Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItem Type Balance Type: na Period Type: durationX- DefinitionAmount by which the current fair value of the underlying stock exceeds the exercise price of options outstanding. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 718-SubTopic 10-Section 50-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2> Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingIntrinsicValue Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItem Type Balance Type: debit Period Type: instantX- DefinitionNumber of options outstanding, including both vested and non-vested options. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(1\) \(i\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (1) (i)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(1\) \(ii\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (1) (ii)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingNumber Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItem Type Balance Type: na Period Type: instantX- DefinitionWeighted average price at which grantees can acquire the shares reserved for issuance under the stock option plan. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(1\) \(i\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (1) (i)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(1\) \(ii\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (1) (ii)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr- types: perShareItem Type Balance Type: na Period Type: instantX- DefinitionAmount by which current fair value of underlying stock exceeds exercise price of fully vested and expected to vest options outstanding. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(e\) \(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (e) (1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingAggregateIntrinsicValue Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItem Type Balance Type: debit Period Type: instantX- DefinitionNumber of fully vested and expected to vest options outstanding that can be converted into shares under option plan. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(e\) \(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (e) (1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingNumber Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItem Type Balance Type: na Period Type: instantX- DefinitionWeighted-average exercise price, at which grantee can acquire shares reserved for issuance, for fully vested and expected to vest options outstanding. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(e\) \(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (e) (1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr- types: perShareItem Type Balance Type: na Period Type: instantX- DefinitionWeighted average price at which option holders acquired shares when converting their stock options into shares. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(1\) \(iv\) \(02\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (1) (iv) (02)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsExercisesInPeriodWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr- types: perShareItem Type Balance Type: na Period Type: durationX- DefinitionWeighted average price at which grantees could have acquired the underlying shares with respect to stock options of the plan that expired. ReferencesReference 1: <http://www.xbrl.org/2003/role/>

disclosureRef- Topic 718- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph (c) (1) (iv) (04)- Publisher FASB- URI <https://asc.fasb.org/1943274/2147480429/718-10-50-2> Details Name: us-
 gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsExpirationsInPeriodWeightedAverageExercisePrice Namespace Prefix: us- gaap_ Data Type: dtr- types: perShareItem Type Balance Type: na Period Type: durationX- DefinitionWeighted average price at which grantees could have acquired the underlying shares with respect to stock options that were terminated. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic-718-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-Subparagraph \(c\) \(1\) \(iv\) \(03\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic-718-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-Subparagraph-(c)-(1)-(iv)-(03)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us- gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsForfeituresInPeriodWeightedAverageExercisePrice Namespace Prefix: us- gaap_ Data Type: dtr- types: perShareItem Type Balance Type: na Period Type: durationX- DefinitionWeighted average per share amount at which grantees can acquire shares of common stock by exercise of options. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic-718-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-Subparagraph \(c\) \(1\) \(iv\) \(01\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic-718-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-Subparagraph-(c)-(1)-(iv)-(01)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us- gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsGrantsInPeriodWeightedAverageExercisePrice Namespace Prefix: us- gaap_ Data Type: dtr- types: perShareItem Type Balance Type: na Period Type: durationX- DefinitionAmount of difference between fair value of the underlying shares reserved for issuance and exercise price of vested portions of options outstanding and currently exercisable. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-718-SubTopic-10-Section 50- Paragraph 2- Publisher FASB- URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-718-SubTopic-10-Section-50-Paragraph-2-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us- gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsExercisableIntrinsicValue1 Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItem Type Balance Type: debit Period Type: instantX- DefinitionWeighted average remaining contractual term for vested portions of options outstanding and currently exercisable or convertible, in 'PnYnMnDTnHnMnS' format, for example, 'PIY5M13D' represents the reported fact of one year, five months, and thirteen days. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-718-SubTopic-10-Section 50- Paragraph 2- Publisher FASB- URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-718-SubTopic-10-Section-50-Paragraph-2-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us- gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsExercisableIntrinsicValue1 Namespace Prefix: us- gaap_ Data Type: xbrli: durationItem Type Balance Type: na Period Type: durationX- DefinitionWeighted average remaining contractual term for option awards outstanding, in 'PnYnMnDTnHnMnS' format, for example, 'PIY5M13D' represents the reported fact of one year, five months, and thirteen days. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Paragraph 2- Section 50- Publisher FASB- URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Paragraph-2-Section-50-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us- gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsOutstandingWeightedAverageRemainingContractualTerm2 Namespace Prefix: us- gaap_ Data Type: xbrli: durationItem Type Balance Type: na Period Type: durationX- DefinitionWeighted average remaining contractual term for fully vested and expected to vest options outstanding, in 'PnYnMnDTnHnMnS' format, for example, 'PIY5M13D' represents reported fact of one year, five months, and thirteen days. Includes, but is not limited to, unvested options for which requisite service period has not been rendered but that are expected to vest based on achievement of performance condition, if forfeitures are recognized when they occur. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic-718-SubTopic-10-Name-Accounting-Standards-Codification-Section 50- Paragraph 2- Subparagraph \(c\) \(1\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic-718-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-Subparagraph-(c)-(1)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us- gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsVestedAndExpectedToVestOutstandingWeightedAverageRemainingContractualTerm1 Namespace Prefix: us- gaap_ Data Type: xbrli: durationItem Type Balance Type: na Period Type: durationX- DefinitionNumber of share options (or share units) exercised during the current period. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section 50- Paragraph 2- SubTopic 10- Topic 505- Publisher FASB- URI https://asc.fasb.org/1943274/2147481112/505-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-SubTopic-10-Topic-505-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147481112/505-10-50-2) Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph \(SX 210. 5- 02 \(28\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic-210-SubTopic-10-Name-Accounting-Standards-Codification-Section-S99-Paragraph-1-Subparagraph-(SX-210-5-02-(28))-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 3: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph \(SX 210. 5- 02 \(29\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic-210-SubTopic-10-Name-Accounting-Standards-Codification-Section-S99-Paragraph-1-Subparagraph-(SX-210-5-02-(29))-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph \(c\) \(1\) \(iv\) \(02\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic-718-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-Subparagraph-(c)-(1)-(iv)-(02)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480429/718-10-50-2) Reference 5: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 505- SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph \(SX 210. 3- 04\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic-505-SubTopic-10-Name-Accounting-Standards-Codification-Section-S99-Paragraph-1-Subparagraph-(SX-210-3-04)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480008/505-10-S99-1) Details Name: us- gaap_StockIssuedDuringPeriodSharesStockOptionsExercised Namespace Prefix: us- gaap_ Data Type: xbrli: sharesItem Type Balance Type: na Period Type: durationX- DefinitionAmount of accumulated difference between fair value of underlying shares on dates of exercise and exercise price on options forfeited or expired. ReferencesNo definition available. Details Name: zvra_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsForfeituresAndExpirationsInPeriodIntrinsicValue Namespace Prefix: zvra_ Data Type: xbrli: monetaryItem Type Balance Type: debit Period Type: durationX- Details Name: us- gaap_PlanNameAxis = zvra_IncentiveStockPlanAR2014PlanAnd2023PlanMember Namespace Prefix: Data Type: Note M- Stock- based Compensation- Information Regarding Currently Outstanding and Exercisable Options (Details) 12 Months EndedDec. 31, 2024 \$ / shares sharesOptions outstanding, number of shares (in shares) 5, 951, 400Exercisable, number of options (in shares) 2, 399, 305Exercise Price Range One [Member] Lower range (in dollars per share) \$ / shares \$ 2. 848Options outstanding, number of shares (in shares) 5, 841, 257Upper range (in dollars per share) \$ / shares \$ 10Outstanding, weighted average remaining contractual term (Year) 6 years 10 months 28 daysExercisable, number of options (in shares) 2, 289, 162Exercisable, weighted average remaining contractual term (Year) 4 years 8 months 8 daysExercise Price Range Two [Member] Lower range (in dollars per share) \$ / shares \$ 10. 01Options outstanding, number of shares (in shares) 1, 875Upper range (in dollars per share) \$ / shares \$ 30Outstanding, weighted average remaining contractual term (Year) 4 years 3 months 21 daysExercisable, number of options (in shares) 1, 875Exercisable, weighted average remaining contractual term (Year) 4 years 4 months 13 daysExercise Price Range Three [Member] Lower range (in dollars per share) \$ / shares \$ 30. 01Options outstanding, number of shares (in shares) 39, 218Upper range (in dollars per share) \$ / shares \$ 50Outstanding, weighted average remaining contractual term (Year) 2 years 8 months 1 dayExercisable, number of options (in shares) 39, 218Exercisable, weighted average remaining contractual term (Year) 2 years 8 months 15 daysExercise Price Range Four [Member] Lower range (in dollars per share) \$ / shares \$ 50. 01Options outstanding, number of shares (in shares) 21, 958Upper range (in dollars per share) \$ / shares \$ 70Outstanding, weighted average remaining contractual term (Year) 1 year 7 months 6 daysExercisable, number of options (in shares) 21, 958Exercisable, weighted average remaining contractual term (Year) 1 year 7 months 17 daysExercise Price Range Five [Member] Lower range (in dollars per share) \$ / shares \$ 70. 01Options outstanding, number of shares (in shares) 47, 092Upper range (in dollars per share) \$ / shares \$ 327. 2Outstanding, weighted average remaining contractual term (Year) 1 year 4 months 9 daysExercisable, number of options (in shares) 47, 092Exercisable, weighted average remaining contractual term (Year) 8 years 4 months 2 daysX- DefinitionThe number of shares into which fully or partially vested stock options outstanding as of the balance sheet date can be currently converted under the option plan. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph \(c\) \(1\) \(iii\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic-718-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-Subparagraph-(c)-(1)-(iii)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us- gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsExercisableNumber Namespace Prefix: us- gaap_ Data Type: xbrli: sharesItem Type Balance Type: na Period Type: instantX- DefinitionNumber of options outstanding, including both vested and non- vested options. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph \(c\) \(1\) \(i\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic-718-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-Subparagraph-(c)-(1)-(i)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480429/718-10-50-2) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718- SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph \(c\) \(1\) \(ii\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic-718-SubTopic-10-Name-Accounting-Standards-Codification-Section-50-Paragraph-2-Subparagraph-(c)-(1)-(ii)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us- gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingNumber Namespace Prefix: us- gaap_ Data Type: xbrli: sharesItem Type Balance Type: na Period Type: instantX- DefinitionThe floor of a customized range of exercise prices for purposes of disclosing shares potentially issuable under outstanding stock option awards on all stock option plans and other required information pertaining to awards in the customized range. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic 718- SubTopic 10- Section 50- Paragraph 2- Subparagraph \(g\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-718-SubTopic-10-Section-50-Paragraph-2-Subparagraph-(g)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us- gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeLowerRangeLimit Namespace Prefix: us- gaap_ Data Type: dtr- types: perShareItem Type Balance Type: na Period Type: durationX- DefinitionThe ceiling of a customized range of exercise prices for purposes of disclosing shares potentially issuable under outstanding stock option awards on all stock option plans and other required information pertaining to awards in the customized range. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic 718- SubTopic 10- Section 50- Paragraph 2- Subparagraph \(g\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-718-SubTopic-10-Section-50-Paragraph-2-Subparagraph-(g)-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us- gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeUpperRangeLimit Namespace Prefix: us- gaap_ Data Type: dtr- types: perShareItem Type Balance Type: na Period Type: durationX- DefinitionWeighted average remaining contractual term for vested portions of options outstanding and currently exercisable or convertible, in 'PnYnMnDTnHnMnS' format, for example, 'PIY5M13D' represents the reported fact of one year, five months, and thirteen days. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic 718- SubTopic 10- Section 50- Paragraph 2- Publisher FASB- URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name-Accounting-Standards-Codification-Topic-718-SubTopic-10-Section-50-Paragraph-2-Publisher-FASB-URI-https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us- gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardOptionsExercisableWeightedAverageRemainingContractualTerm1 Namespace Prefix: us- gaap_ Data Type: xbrli: durationItem Type Balance Type: na Period Type: durationX- DefinitionWeighted average remaining contractual term for option awards

outstanding, in 'PnYnMnDTnHnMnS' format, for example, 'PIY5M13D' represents the reported fact of one year, five months, and thirteen days. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic 718-SubTopic 10-Subparagraph \(e\) \(1\)-Name Accounting Standards Codification-Paragraph 2-Section 50-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Topic 718-SubTopic 10-Subparagraph (e) (1)-Name Accounting Standards Codification-Paragraph 2-Section 50-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsOutstandingWeightedAverageRemainingContractualTerm2 Namespace Prefix: us-gaap_Data Type: xbrli: durationItemType Balance Type: na Period Type: durationX- Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeAxis = zvrz_ExercisePriceRangeOneMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeAxis = zvrz_ExercisePriceRangeTwoMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeAxis = zvrz_ExercisePriceRangeThreeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeAxis = zvrz_ExercisePriceRangeFourMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeAxis = zvrz_ExercisePriceRangeFiveMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note M-Stock-based Compensation-Nonvested Stock Option Awards (Details)-\$/shares 12 Months EndedDec. 31, 2024 Dec. 31, 2023Number of unvested shares (in shares) 3, 552, 095 5, 614, 977Exercise Price Range One [Member] Lower range (in dollars per share) \$ 2. 848 Upper range (in dollars per share) \$ 10 Number of unvested shares (in shares) 3, 552, 095 5, 614, 977X- DefinitionThe floor of a customized range of exercise prices for purposes of disclosing shares potentially issuable under outstanding stock option awards on all stock option plans and other required information pertaining to awards in the customized range. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 718-SubTopic 10-Section 50-Paragraph 2-Subparagraph \(g\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 718-SubTopic 10-Section 50-Paragraph 2-Subparagraph (g)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeLowerRangeLimit Namespace Prefix: us-gaap_Data Type: dtr- types: perShareItemType Balance Type: na Period Type: durationX- DefinitionThe ceiling of a customized range of exercise prices for purposes of disclosing shares potentially issuable under outstanding stock option awards on all stock option plans and other required information pertaining to awards in the customized range. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 718-SubTopic 10-Section 50-Paragraph 2-Subparagraph \(g\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://fasb.org/us-gaap/role/ref/legacyRef-Name Accounting Standards Codification-Topic 718-SubTopic 10-Section 50-Paragraph 2-Subparagraph (g)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansExercisePriceRangeUpperRangeLimit Namespace Prefix: us-gaap_Data Type: dtr- types: perShareItemType Balance Type: na Period Type: durationX- DefinitionNumber of non-vested options outstanding. ReferencesNo definition available. Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardOptionsNonvestedNumberOfShares Namespace Prefix: us-gaap_Data Type: xbrli: sharesItemType Balance Type: na Period Type: instantX- Details Name: us-gaap_ShareBasedCompensationSharesAuthorizedUnderStockOptionPlansByExercisePriceRangeAxis = zvrz_ExercisePriceRangeOneMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note M-Stock-based Compensation-Restricted Stock Unit Activity (Details)-Restricted Stock Units (RSUs) [Member] 12 Months EndedDec. 31, 2024 \$/shares sharesUnvested balance (in shares) | shares 747, 945Unvested balance, weighted-average grant date fair value (in dollars per share) | \$/shares \$ 4. 33Granted (in shares) | shares 2, 012, 958Granted, weighted-average grant date fair value (in dollars per share) | \$/shares \$ 5. 52Vested (in shares) | shares 765, 945Vested, weighted-average grant date fair value (in dollars per share) | \$/shares \$ 4. 77Forfeited (in shares) | shares 156, 700Forfeited, weighted-average grant date fair value (in dollars per share) | \$/shares \$ 5. 83Unvested balance (in shares) | shares 1, 838, 258Unvested balance, weighted-average grant date fair value (in dollars per share) | \$/shares \$ 5. 32X- DefinitionThe number of equity-based payment instruments, excluding stock (or unit) options, that were forfeited during the reporting period. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(2\) \(iii\) \(03\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (2) (iii) (03)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsForfeitedInPeriod Namespace Prefix: us-gaap_Data Type: xbrli: sharesItemType Balance Type: na Period Type: durationX- DefinitionWeighted average fair value as of the grant date of equity-based award plans other than stock (unit) option plans that were not exercised or put into effect as a result of the occurrence of a terminating event. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(2\) \(iii\) \(03\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (2) (iii) (03)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsForfeituresWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_Data Type: dtr- types: perShareItemType Balance Type: na Period Type: durationX- DefinitionThe number of grants made during the period on other than stock (or unit) option plans (for example, phantom stock or unit plan, stock or unit appreciation rights plan, performance target plan). ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(2\) \(iii\) \(01\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (2) (iii) (01)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsGrantsInPeriod Namespace Prefix: us-gaap_Data Type: xbrli: sharesItemType Balance Type: na Period Type: durationX- DefinitionThe weighted average fair value at grant date for nonvested equity-based awards issued during the period on other than stock (or unit) option plans (for example, phantom stock or unit plan, stock or unit appreciation rights plan, performance target plan). ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(2\) \(iii\) \(01\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (2) (iii) (01)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsGrantsInPeriodWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_Data Type: dtr- types: perShareItemType Balance Type: na Period Type: durationX- DefinitionThe number of non-vested equity-based payment instruments, excluding stock (or unit) options, that validly exist and are outstanding as of the balance sheet date. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(2\) \(i\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (2) (i)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(2\) \(ii\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (2) (ii)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsNonvestedNumber Namespace Prefix: us-gaap_Data Type: xbrli: sharesItemType Balance Type: na Period Type: instantX- DefinitionPer share or unit weighted-average fair value of nonvested award under share-based payment arrangement. Excludes share and unit options. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(2\) \(i\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (2) (i)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(2\) \(ii\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (2) (ii)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsNonvestedWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_Data Type: dtr- types: perShareItemType Balance Type: na Period Type: instantX- DefinitionThe number of equity-based payment instruments, excluding stock (or unit) options, that vested during the reporting period. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(2\) \(iii\) \(02\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (2) (iii) (02)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsVestedInPeriod Namespace Prefix: us-gaap_Data Type: xbrli: sharesItemType Balance Type: na Period Type: durationX- DefinitionThe weighted average fair value as of grant date pertaining to an equity-based award plan other than a stock (or unit) option plan for which the grantee gained the right during the reporting period, by satisfying service and performance requirements, to receive or retain shares or units, other instruments, or cash in accordance with the terms of the arrangement. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph \(c\) \(2\) \(iii\) \(02\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 718-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c) (2) (iii) (02)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480429/718-10-50-2) Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardEquityInstrumentsOtherThanOptionsVestedInPeriodWeightedAverageGrantDateFairValue Namespace Prefix: us-gaap_Data Type: dtr- types: perShareItemType Balance Type: na Period Type: durationX- Details Name: us-gaap_AwardTypeAxis = us-gaap_RestrictedStockUnitsRSUMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note N-Fair Value of Financial Instruments-Assets and Liabilities Measured at Fair Value on Recurring Basis (Details)-Fair Value, Recurring [Member]-USD (\$) \$ in Thousands Dec. 31, 2024 Dec. 31, 2023Total liabilities \$ 21, 304 \$ 23, 362Total assets 41, 721 24, 688US Treasury Securities [Member] Total assets 35, 711 24, 688Corporate Bond Securities [Member] Total assets 6, 010 Fair Value, Inputs, Level 1 [Member] Total liabilitiesTotal assets 35, 711 24, 688Fair Value, Inputs, Level 1 [Member] | US Treasury Securities [Member] Total assets 35, 711 24, 688Fair Value, Inputs, Level 1 [Member] | Corporate Bond Securities [Member] Total assets Fair Value, Inputs, Level 2 [Member] Total liabilitiesTotal assets 6, 010Fair Value, Inputs, Level 2 [Member] | US Treasury Securities [Member] Total assetsFair Value, Inputs, Level 2 [Member] | Corporate Bond Securities [Member] Total assets 6, 010 Fair Value, Inputs, Level 3 [Member] Total liabilities 21, 304 23, 362Total assetsFair Value, Inputs, Level 3 [Member] | US Treasury Securities [Member] Total assetsFair Value, Inputs, Level 3 [Member] | Corporate Bond Securities [Member] Total assets CVR Liability [Member] | Derivative Financial Instruments, Liabilities [Member] | Fair Value, Inputs, Level 1 [Member] Total liabilitiesCVR Liability [Member] | Derivative Financial Instruments, Liabilities [Member] | Fair Value, Inputs, Level 2 [Member] Total liabilitiesCVR Liability [Member] | Derivative Financial Instruments, Liabilities [Member] | Fair Value, Inputs, Level 3 [Member] Total liabilities 3, 500 7, 262Warrants [Member] | Derivative Financial Instruments, Liabilities [Member] Total liabilities 17, 804 16, 100Warrants [Member] | Derivative Financial

Instruments, Liabilities [Member] | Fair Value, Inputs, Level 1 [Member] Total liabilitiesWarrants [Member] | Derivative Financial Instruments, Liabilities [Member] | Fair Value, Inputs, Level 2 [Member] Total liabilitiesWarrants [Member] | Derivative Financial Instruments, Liabilities [Member] | Fair Value, Inputs, Level 3 [Member] Total liabilities \$ 17, 804 \$ 16, 100X- DefinitionFair value portion of asset recognized for present right to economic benefit. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 55- Paragraph 100- Publisher FASB- URI https://asc.fasb.org/1943274/2147482078/820-10-55-100>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph \(b\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph (b)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph \(a\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph (a)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2)Details Name: us- gaap_ AssetsFairValueDisclosure Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionFair value of financial and nonfinancial obligations. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph \(a\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph (a)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph \(b\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph (b)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2)Details Name: us- gaap_ LiabilitiesFairValueDisclosure Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- Details Name: us- gaap_ FairValueByMeasurementFrequencyAxis = us- gaap_ FairValueMeasurementsRecurringMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us- gaap_ FairValueByAssetClassAxis = us- gaap_ USTreasurySecuritiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us- gaap_ FairValueByAssetClassAxis = us- gaap_ CorporateBondSecuritiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us- gaap_ FairValueByFairValueHierarchyLevelAxis = us- gaap_ FairValueInputsLevel1Member Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us- gaap_ FairValueByFairValueHierarchyLevelAxis = us- gaap_ FairValueInputsLevel2Member Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us- gaap_ FairValueByFairValueHierarchyLevelAxis = us- gaap_ FairValueInputsLevel3Member Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us- gaap_ DerivativeInstrumentRiskAxis = zvra_ CVRLiabilityMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us- gaap_ FairValueByLiabilityClassAxis = us- gaap_ DerivativeFinancialInstrumentsLiabilitiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us- gaap_ DerivativeInstrumentRiskAxis = zvra_ WarrantsMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note N- Fair Value of Financial Instruments- Fair Value Assumptions for Warrant Liabilities (Details) 12 Months EndedDec. 31, 2024 yr \$ / sharesDec. 31, 2023 yr \$ / sharesWeighted average fair value (in dollars per share) | \$ / shares \$ 3. 25 \$ 2. 94Measurement Input, Risk Free Interest Rate | Member] | Minimum | Member] Measurement Input 0. 0408 0. 0376Measurement Input, Risk Free Interest Rate | Member] | Maximum | Member] Measurement Input 0. 0423 0. 0412Measurement Input, Price Volatility | Member] | Minimum | Member] Measurement Input 0. 6214 0. 6201Measurement Input, Price Volatility | Member] | Maximum | Member] Measurement Input 0. 6868 0. 9242Measurement Input, Expected Dividend Rate | Member] Measurement Input Measurement Input, Expected Dividend Rate | Member] | Maximum | Member] Measurement Input Measurement Input, Expected Term | Member] | Minimum | Member] Measurement Input 1. 02Measurement Input, Expected Term | Member] | Maximum | Member] Measurement Input 3. 89 4. 9X- DefinitionValue of input used to measure outstanding warrant and right embodying unconditional obligation requiring redemption by transferring asset at specified or determinable date or upon event certain to occur. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph \(bbb\) \(2\) \(i\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph (bbb) (2) (i)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2)Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph \(bbb\) \(2\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph (bbb) (2)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2)Reference 3: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph \(bbb\) \(1\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph (bbb) (1)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2)Details Name: us- gaap_ WarrantsAndRightsOutstandingMeasurementInput Namespace Prefix: us- gaap_ Data Type: xbrli: decimalItemType Balance Type: na Period Type: instantX- DefinitionRepresents the weighted average fair value under fair value assumptions for warrant liabilities. ReferencesNo definition available. Details Name: zvra_ ClassOfWarrantOrRightLiabilityWeightedAverageFairValue Namespace Prefix: zvra_ Data Type: dtr- types: perShareItemType Balance Type: na Period Type: durationX- Details Name: us- gaap_ MeasurementInputTypeAxis = us- gaap_ MeasurementInputRiskFreeInterestRateMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_ RangeAxis = srt_ MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_ RangeAxis = srt_ MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us- gaap_ MeasurementInputTypeAxis = us- gaap_ MeasurementInputPriceVolatilityMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us- gaap_ MeasurementInputTypeAxis = us- gaap_ MeasurementInputExpectedDividendRateMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us- gaap_ MeasurementInputTypeAxis = us- gaap_ MeasurementInputExpectedTermMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note N- Fair Value of Financial Instruments- Reconciliation of Beginning and Ending Balances for Derivative and Warrant Liability Measured at Fair Value on Recurring Basis (Details) \$ in Thousands 12 Months EndedDec. 31, 2024 USD (\$) Balance \$ 16, 100Change in fair value measurement 1, 704Balance \$ 17, 804X- DefinitionFair value of financial instrument classified as a liability measured using unobservable inputs that reflect the entity' s own assumption about the assumptions market participants would use in pricing. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 3- Subparagraph \(b\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 3- Subparagraph (b)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-3)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph \(c\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 820-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 2- Subparagraph (c)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482106/820-10-50-2)Details Name: us- gaap_ FairValueMeasurementWithUnobservableInputsReconciliationsRecurringBasisLiabilityValue Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAmount of cumulative effect adjustment for financial instrument classified as a liability measured using unobservable inputs that reflect the entity' s own assumption about the assumptions market participants would use in pricing. ReferencesNo definition available. Details Name: zvra_ FairValueMeasurementWithUnobservableInputsReconciliationRecurringBasisLiabilityCumulativeEffectAdjustment Namespace Prefix: zvra_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationNote O- Income Taxes (Details Textual)- USD (\$) \$ in Thousands 12 Months EndedDec. 31, 2024Dec. 31, 2023State and Local Jurisdiction | Member] State and Local Income Tax Expense (Benefit), Continuing Operations \$ 0 \$ 0Operating Loss Carryforwards 428, 600 Domestic Tax Jurisdiction | Member] Operating Loss Carryforwards 381, 300 Operating Loss Carryforwards, Subject to Expiration 118, 500 Operating Loss Carryforwards, Not Subject to Expiration 262, 800 Foreign Tax Jurisdiction | Member] | Danish | Member] Operating Loss Carryforwards \$ 7, 700 X- DefinitionAmount of operating loss carryforward, before tax effects, available to reduce future taxable income under enacted tax laws. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 3- Subparagraph \(a\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482685/740-10-50-3](http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 3- Subparagraph (a)- Publisher FASB- URI https://asc.fasb.org/1943274/2147482685/740-10-50-3)Details Name: us- gaap_ OperatingLossCarryforwards Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of current and deferred state and local tax expense (benefit) attributable to income (loss) from continuing operations. Includes, but is not limited to, current and deferred regional, territorial, and provincial tax expense (benefit) for non- US (United States of America) jurisdiction. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 10B- Publisher FASB- URI https://asc.fasb.org/1943274/2147482685/740-10-50-10B>Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph \(SAB Topic 6. I. 7\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph (SAB Topic 6. I. 7)- Publisher FASB- URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1)Reference 3: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph \(SX 210. 4- 08 \(h\) \(1\) \(Note 1\)\)- Publisher FASB- URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10- Name Accounting Standards Codification- Section S99- Paragraph 1- Subparagraph (SX 210. 4- 08 (h) (1) (Note 1))- Publisher FASB- URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1)Reference 4: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10- Name Accounting Standards Codification- Section 50- Paragraph 10- Publisher FASB- URI https://asc.fasb.org/1943274/2147482685/740-10-50-10>Details Name: us- gaap_ StateAndLocalIncomeTaxExpenseBenefitContinuingOperations Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of operating loss carryforward, before tax effects, available to reduce future taxable income under enacted tax laws that are not subject to expiration. ReferencesNo definition available. Details Name: zvra_ OperatingLossCarryforwardsNotSubjectToExpiration Namespace Prefix: zvra_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of operating loss carryforward, before tax effects, available to reduce future taxable income under enacted tax laws that are subject to expiration. ReferencesNo definition available. Details Name: zvra_ OperatingLossCarryforwardsSubjectToExpiration Namespace Prefix: zvra_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- Details Name: us- gaap_ IncomeTaxAuthorityAxis = us- gaap_ StateAndLocalJurisdictionMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us- gaap_ IncomeTaxAuthorityAxis = us- gaap_ DomesticCountryMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us- gaap_ IncomeTaxAuthorityAxis = us- gaap_ ForeignCountryMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us- gaap_ IncomeTaxAuthorityNameAxis = zvra_ DanishMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note O- Income Taxes- Schedule of Reconciliation of Difference Between Benefit for Income Taxes and Income Taxes at Statutory U. S. Federal Income Tax Rate (Details) 12 Months EndedDec. 31, 2024Dec. 31, 2023Federal statutory rate 21. 00 % 21. 00 % Foreign rate differential 0. 04 % 0. 00 % Change in valuation allowance (13. 17 %) (23. 29 %) Return to provision and deferred true- up (4. 40 %) (2. 41 %) Change in rate 0. 00 % (0. 01 %) State tax benefit (net of federal) 5. 05 % 5. 19 % Stock- based compensation (0. 55 %) (0. 20 %) Global intangible low- taxed income credit (0. 02 %) (3. 41 %) Officers compensation (0. 23 %) 0. 00 % Expiration of net operating loss deferred tax asset (3. 01 %) 0. 00 % Deferred adjustment and rate change (4. 27 %) 0. 00 % Uncertain tax position (17. 88 %) 0. 00 % Other 0. 39 % (0. 10 %) Federal income tax provision effective rate (17. 05 %) 0. 00 % Domestic Tax Jurisdiction | Member] Research and development credit 0. 00 % 4. 09 % Foreign Tax Jurisdiction | Member] Research and development credit 0. 00 % (0. 86 %) X- DefinitionPercentage of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing

operations. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 231-Publisher FASB-URI https://asc.fasb.org/1943274/2147482663/740-10-55-231> Details Name: us-gaap_EffectiveIncomeTaxRateContinuingOperations Namespace Prefix: us-gaap_Data Type: dtr- types: percentItem Type Balance Type: na Period Type: durationX- DefinitionPercentage of domestic federal statutory tax rate applicable to pretax income (loss). ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 231-Publisher FASB-URI https://asc.fasb.org/1943274/2147482663/740-10-55-231>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SAB Topic 6. I. 1. Q1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SAB Topic 6. I. 1. Q1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 4-08 \(h\) \(2\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (h) (2))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1) Details Name: us-gaap_EffectiveIncomeTaxRateReconciliationAtFederalStatutoryIncomeTaxRate Namespace Prefix: us-gaap_Data Type: dtr- types: percentItem Type Balance Type: na Period Type: durationX- DefinitionPercentage of the difference between reported income tax expense (benefit) and expected income tax expense (benefit) computed by applying the domestic federal statutory income tax rates to pretax income (loss) from continuing operations attributable to changes in the valuation allowance for deferred tax assets. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 231-Publisher FASB-URI https://asc.fasb.org/1943274/2147482663/740-10-55-231>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12A-Subparagraph \(a\) \(6\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12A](http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12A-Subparagraph (a) (6)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12A)Reference 3: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12>Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 4-08 \(h\) \(2\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (h) (2))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1) Details Name: us-gaap_EffectiveIncomeTaxRateReconciliationChangeInDeferredTaxAssetsValuationAllowance Namespace Prefix: us-gaap_Data Type: dtr- types: percentItem Type Balance Type: na Period Type: durationX- DefinitionPercentage of the difference between reported income tax expense (benefit) and expected income tax expense (benefit) computed by applying the domestic federal statutory income tax rates to pretax income (loss) from continuing operations attributable to changes in the income tax rates. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 231-Publisher FASB-URI https://asc.fasb.org/1943274/2147482663/740-10-55-231>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12A-Subparagraph \(a\) \(3\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12A](http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12A-Subparagraph (a) (3)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12A)Reference 3: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12>Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 4-08 \(h\) \(2\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (h) (2))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1) Details Name: us-gaap_EffectiveIncomeTaxRateReconciliationChangeInEnactedTaxRate Namespace Prefix: us-gaap_Data Type: dtr- types: percentItem Type Balance Type: na Period Type: durationX- DefinitionPercentage of the difference between reported income tax expense (benefit) and expected income tax expense (benefit) computed by applying the domestic federal statutory income tax rates to pretax income (loss) from continuing operations applicable to statutory income tax expense (benefit) outside of the country of domicile. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 231-Publisher FASB-URI https://asc.fasb.org/1943274/2147482663/740-10-55-231>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Subparagraph \(b\) \(2\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12](http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Subparagraph (b) (2)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12A-Subparagraph \(a\) \(2\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12A](http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12A-Subparagraph (a) (2)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12A)Reference 4: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12>Reference 5: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 4-08 \(h\) \(2\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (h) (2))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1) Details Name: us-gaap_EffectiveIncomeTaxRateReconciliationForeignIncomeTaxRateDifferential Namespace Prefix: us-gaap_Data Type: dtr- types: percentItem Type Balance Type: na Period Type: durationX- DefinitionPercentage of reported income tax expense from difference to expected income tax expense (benefit) computed by applying domestic federal statutory income tax rate to pretax income (loss) from continuing operations, attributable to global intangible low- taxed income (GILTI). ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 231-Publisher FASB-URI https://asc.fasb.org/1943274/2147482663/740-10-55-231>Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12A-Subparagraph \(b\) \(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12A](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12A-Subparagraph (b) (1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12A)Reference 3: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12>Details Name: us-gaap_EffectiveIncomeTaxRateReconciliationGiltiPercent Namespace Prefix: us-gaap_Data Type: dtr- types: percentItem Type Balance Type: na Period Type: durationX- DefinitionPercentage of difference between reported income tax expense (benefit) and expected income tax expense (benefit) computed by applying domestic federal statutory income tax rate to pretax income (loss) from continuing operation, attributable to nondeductible expense for share- based payment arrangement. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 231-Publisher FASB-URI https://asc.fasb.org/1943274/2147482663/740-10-55-231>Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12A-Subparagraph \(b\) \(1\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12A](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12A-Subparagraph (b) (1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12A)Reference 3: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12>Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 4-08 \(h\) \(2\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (h) (2))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1) Details Name: us-gaap_EffectiveIncomeTaxRateReconciliationNondeductibleExpenseShareBasedCompensationCost Namespace Prefix: us-gaap_Data Type: dtr- types: percentItem Type Balance Type: na Period Type: durationX- DefinitionPercentage of reported income tax benefit (expense) from difference to income tax expense (benefit) computed by applying statutory federal (national) income tax rate to pretax income (loss) from continuing operation, attributable to other reconciling items. Excludes state and local income tax expense (benefit), federal tax expense (benefit), statutory income tax expense (benefit) outside of country of domicile, tax credit, nondeductible expense, deduction, income tax settlement, income tax contingency, and cross- border tax law. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Subparagraph \(b\) \(3\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Subparagraph (b) (3)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12)Details Name: us-gaap_EffectiveIncomeTaxRateReconciliationOtherReconcilingItemsPercent Namespace Prefix: us-gaap_Data Type: dtr- types: percentItem Type Balance Type: na Period Type: durationX- DefinitionPercentage of difference between reported income tax expense (benefit) and expected income tax expense (benefit) computed by applying domestic federal statutory income tax rate to pretax income (loss) from continuing operation, attributable to expense for award under share- based payment arrangement. Excludes expense determined to be nondeductible upon grant or after for award under share- based payment arrangement. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Subparagraph \(b\) \(3\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Subparagraph (b) (3)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12)Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12>Reference 3: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Subparagraph \(b\) \(3\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Subparagraph (b) (3)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12)Reference 4: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 4-08 \(h\) \(2\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (h) (2))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1) Details Name: us-gaap_EffectiveIncomeTaxRateReconciliationStateAndLocalIncomeTaxes Namespace Prefix: us-gaap_Data Type: dtr- types: percentItem Type Balance Type: na Period Type: durationX- DefinitionPercentage of the difference between reported income tax expense (benefit) and expected income tax expense (benefit) computed by applying the domestic federal statutory income tax rates to pretax income (loss) from continuing operations attributable to research tax credit. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 231-Publisher FASB-URI https://asc.fasb.org/1943274/2147482663/740-10-55-231>

asc.fasb.org/1943274/2147482663/740-10-55-231Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12A-Subparagraph (b) (1)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12AReference 3: http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 12-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef-Topic 235-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 4-08 (h) (2))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1 Details Name: us-gaap_EffectiveIncomeTaxRateReconciliationTaxCreditsResearch Namespace Prefix: us-gaap_ Data Type: dtr-types: percentItem Type Balance Type: na Period Type: durationX- DefinitionPercentage of the difference between reported income tax expense (benefit) and expected income tax expense (benefit) computed by applying the domestic federal statutory income tax rates to pretax income (loss) from continuing operations attributable to deferred adjustment and rate change. ReferencesNo definition available. Details Name: zvra_EffectiveIncomeTaxRateReconciliationDeferredAdjustmentAndRateChangePercent Namespace Prefix: zvra_ Data Type: dtr-types: percentItem Type Balance Type: na Period Type: durationX- DefinitionPercentage of difference between reported income tax expense (benefit) and expected income tax expense (benefit) computed by applying domestic federal statutory income tax rate to pretax income (loss) from continuing operations, attributable to the expiration of net operating loss deferred tax asset. ReferencesNo definition available. Details Name: zvra_EffectiveIncomeTaxRateReconciliationExpirationOfDeferredTaxAssetsNetOperationLoss Namespace Prefix: zvra_ Data Type: dtr-types: percentItem Type Balance Type: na Period Type: durationX- DefinitionPercentage of the difference between reported income tax expense (benefit) and expected income tax expense (benefit) computed by applying the domestic federal statutory income tax rates to pretax income (loss) from continuing operations attributable to return to provision and deferred true-up. ReferencesNo definition available. Details Name: zvra_EffectiveIncomeTaxRateReconciliationReturnToProvisionAndDeferredTrueup Namespace Prefix: zvra_ Data Type: dtr-types: percentItem Type Balance Type: na Period Type: durationX- DefinitionPercentage of the difference between reported income tax expense (benefit) and expected income tax expense (benefit) computed by applying the domestic federal statutory income tax rates to pretax income (loss) from continuing operations attributable to uncertain tax position. ReferencesNo definition available. Details Name: zvra_EffectiveIncomeTaxRateReconciliationUncertainTaxPositionPercent Namespace Prefix: zvra_ Data Type: dtr-types: percentItem Type Balance Type: na Period Type: X- Details Name: us-gaap_IncomeTaxAuthorityAxis = us-gaap_DomesticCountryMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_IncomeTaxAuthorityAxis = us-gaap_ForeignCountryMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note O- Income Taxes- Components of Net Deferred Tax Assets and Liabilities (Details)- USD (\$) \$ in Thousands Dec. 31, 2024 Dec. 31, 2023Net operating loss carryforwards \$ 100,552 \$ 90,743Research and development tax carryforward 19,153 20,670Stock-based compensation 5,711 5,154174 expenses 33,941 30,241Right-of-use liabilityProperty and equipment (79) (23) Other deferred tax assets 3,652 1,951Total gross deferred tax assets 163,196 149,047Right-of-use assetIntangibles 17,859 14,473Total gross deferred tax liabilities 17,941 14,722Deferred tax assets less liabilities 145,256 134,324Valuation allowance (146,359) (134,488) Net deferred tax liability \$ (1,103) \$ (164) X- DefinitionAmount of deferred tax liability attributable to taxable temporary differences. ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02 (26) (b))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-2Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 210-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.5-02 (26) (a))-Publisher FASB-URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 210-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210.9-03 (15) (2))-Publisher FASB-URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 Details Name: us-gaap_DeferredIncomeTaxLiabilities Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItem Type Balance Type: credit Period Type: instantX- DefinitionAmount before allocation of valuation allowances of deferred tax asset attributable to deductible temporary differences and carryforwards. ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-2 Details Name: us-gaap_DeferredTaxAssetsGross Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItem Type Balance Type: debit Period Type: instantX- DefinitionAmount before allocation of valuation allowances of deferred tax asset attributable to deductible operating loss carryforwards. ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-6 Details Name: us-gaap_DeferredTaxAssetsOperatingLossCarryforwards Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItem Type Balance Type: debit Period Type: instantX- DefinitionAmount, before allocation of valuation allowance, of deferred tax asset attributable to deductible temporary differences, classified as other. ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-6 Details Name: us-gaap_DeferredTaxAssetsOther Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItem Type Balance Type: debit Period Type: instantX- DefinitionAmount before allocation of valuation allowances of deferred tax asset attributable to deductible temporary differences from property, plant, and equipment. ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-6 Details Name: us-gaap_DeferredTaxAssetsPropertyPlantAndEquipment Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItem Type Balance Type: debit Period Type: instantX- DefinitionAmount before allocation of valuation allowances of deferred tax asset attributable to deductible research tax credit carryforwards. ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-6 Details Name: us-gaap_DeferredTaxAssetsTaxCreditCarryforwardsResearch Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItem Type Balance Type: debit Period Type: instantX- DefinitionAmount before allocation of valuation allowances of deferred tax asset attributable to deductible temporary differences from share-based compensation. ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-6 Details Name: us-gaap_DeferredTaxAssetsTaxDeferredExpenseCompensationAndBenefitsShareBasedCompensationCost Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItem Type Balance Type: debit Period Type: instantX- DefinitionAmount of deferred tax assets for which it is more likely than not that a tax benefit will not be realized. ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-2 Details Name: us-gaap_DeferredTaxAssetsValuationAllowance Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItem Type Balance Type: credit Period Type: instantX- DefinitionAmount, after deferred tax asset, of deferred tax liability attributable to taxable differences without jurisdictional netting. ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-2 Details Name: us-gaap_DeferredTaxLiabilitiesNamespace Prefix: us-gaap_ Data Type: xbrli: monetaryItem Type Balance Type: credit Period Type: instantX- DefinitionAmount of deferred tax liability attributable to taxable temporary differences from intangible assets other than goodwill. ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef-Topic 740-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147482685/740-10-50-6 Details Name: us-gaap_DeferredTaxLiabilitiesGoodwillAndIntangibleAssetsIntangibleAssets Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItem Type Balance Type: credit Period Type: instantX- DefinitionAmount, before allocation of valuation allowance and after deferred tax liability asset attributable to deductible differences and carryforwards, without jurisdictional netting. ReferencesNo definition available. Details Name: zvra_DeferredIncomeTaxAssetsLiabilities Namespace Prefix: zvra_ Data Type: xbrli: monetaryItem Type Balance Type: debit Period Type: instantX- DefinitionAmount, before allocation of valuation allowance, of deferred tax asset attributable to 174 expenses. ReferencesNo definition available. Details Name: zvra_DeferredTaxAssets174Expenses Namespace Prefix: zvra_ Data Type: xbrli: monetaryItem Type Balance Type: debit Period Type: instantX- DefinitionDeferred tax assets related to right-of-use assets. ReferencesNo definition available. Details Name: zvra_DeferredTaxAssetsRightofuseLiability Namespace Prefix: zvra_ Data Type: xbrli: monetaryItem Type Balance Type: debit Period Type: instantX- DefinitionDeferred liabilities related to right-of-use. ReferencesNo definition available. Details Name: zvra_DeferredTaxLiabilitiesRightofuseAsset Namespace Prefix: zvra_ Data Type: xbrli: monetaryItem Type Balance Type: credit Period Type: instantNote P- Net Loss Per Share- Anti-dilutive Securities (Details)- shares 12 Months EndedDec. 31, 2024 Dec. 31, 2023Antidilutive securities (in shares) 6,631,549 7,332,614Share-Based Payment Arrangement | Member | Antidilutive securities (in shares) 1,148,012 1,728,885Warrants to Purchase Common Stock | Member | Antidilutive securities (in shares) 5,483,537 5,603,729X- DefinitionSecurities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) or earnings per unit (EPU) in the future that were not included in the computation of diluted EPS or EPU because to do so would increase EPS or EPU amounts or decrease loss per share or unit amounts for the period presented. ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (c)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482662/260-10-50-1 Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItem Type Balance Type: na Period Type: durationX- Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis = us-gaap_StockCompensationPlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis = zvra_WarrantsToPurchaseCommonStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note P- Net Loss Per Share- Earnings Per Share (Details)- USD (\$) \$ / shares in Units, \$ in Thousands 12 Months EndedDec. 31, 2024 Dec. 31, 2023Net loss, basic and diluted \$ (105,511) \$ (46,049) Weighted average number of shares of common stock outstanding, basic and diluted (in shares) 46,251,239 35,452,460Basic and diluted net loss per share of common stock (in dollars per share) \$ (2.28) \$ (1.3) X- DefinitionThe amount of net

(source (loss) for the period per each share of common stock or unit outstanding during the reporting period. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 6-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-6>Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 52-Publisher FASB-URI https://asc.fasb.org/1943274/2147482635/260-10-55-52>Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic 805-SubTopic 60-Name Accounting Standards Codification-Section 65-Paragraph 1-Subparagraph \(g\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147476176/805-60-65-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 805-SubTopic 60-Name Accounting Standards Codification-Section 65-Paragraph 1-Subparagraph (g)-Publisher FASB-URI https://asc.fasb.org/1943274/2147476176/805-60-65-1)Reference 4: [http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 323-Name Accounting Standards Codification-Section 65-Paragraph 2-Subparagraph \(g\) \(3\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478666/740-323-65-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 740-SubTopic 323-Name Accounting Standards Codification-Section 65-Paragraph 2-Subparagraph (g) (3)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478666/740-323-65-2)Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 3-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-3>Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 55-Paragraph 15-Publisher FASB-URI https://asc.fasb.org/1943274/2147482635/260-10-55-15>Reference 7: [http://www.xbrl.org/2003/role/disclosureRef-Topic 815-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 1-Subparagraph \(e\) \(4\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480175/815-40-65-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 815-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 1-Subparagraph (e) (4)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480175/815-40-65-1)Reference 8: [http://www.xbrl.org/2003/role/disclosureRef-Topic 815-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 1-Subparagraph \(f\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480175/815-40-65-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 815-SubTopic 40-Name Accounting Standards Codification-Section 65-Paragraph 1-Subparagraph (f)-Publisher FASB-URI https://asc.fasb.org/1943274/2147480175/815-40-65-1)Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-11)Reference 10: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-11](http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 11-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-11)Reference 11: [http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 7-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-7](http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 7-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-7)Reference 12: <http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 2-Publisher FASB-URI https://asc.fasb.org/1943274/2147482689/260-10-45-2>Reference 13: [http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 60B-Subparagraph \(d\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482689/260-10-45-60B](http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 60B-Subparagraph (d)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482689/260-10-45-60B)Reference 14: <http://www.xbrl.org/2003/role/disclosureRef-Topic 250-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 4-Publisher FASB-URI https://asc.fasb.org/1943274/2147483443/250-10-50-4>Reference 15: [http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482662/260-10-50-1)Reference 16: <http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 10-Publisher FASB-URI https://asc.fasb.org/1943274/2147482689/260-10-45-10>Reference 17: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph \(SX 210. 5-03 \(25\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section S99-Paragraph 2-Subparagraph (SX 210. 5-03 (25))-Publisher FASB-URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2)Reference 18: [http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 9-04 \(27\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 942-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 9-04 (27))-Publisher FASB-URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1)Reference 19: [http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph \(SX 210. 7-04 \(23\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 944-SubTopic 220-Name Accounting Standards Codification-Section S99-Paragraph 1-Subparagraph (SX 210. 7-04 (23))-Publisher FASB-URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1)Reference 20: <http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 7-Publisher FASB-URI https://asc.fasb.org/1943274/2147482689/260-10-45-7> Details Name: us-gaap_EarningsPerShareBasic Namespace

1943274 / 2147482740 / 230-10-45-28Reference 35: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1A-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1A-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A)Reference 36: [http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1B-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1B](http://www.xbrl.org/2003/role/disclosureRef-Topic 220-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 1B-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482790/220-10-45-1B)Reference 37: [http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 220-Name Accounting Standards Codification-Section 55-Paragraph 1-Subparagraph 1-Subparagraph \(SX 210, 9-04 \(22\)\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478524/942-220-599-1](http://asc.fasb.org/us-gaap/role/ref/legacyRef-Topic 942-SubTopic 220-Name Accounting Standards Codification-Section 55-Paragraph 1-Subparagraph 1-Subparagraph (SX 210, 9-04 (22))-Publisher FASB-URI https://asc.fasb.org/1943274/2147478524/942-220-599-1) Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: durationX-DefinitionNumber of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482662/260-10-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 50-Paragraph 1-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147482662/260-10-50-1)Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic 260-SubTopic 10-Name Accounting Standards Codification-Section 45-Paragraph 10-Publisher FASB-URI https://asc.fasb.org/1943274/2147482689/260-10-45-10> Details Name: us-gaap_WeightedAverageNumberOfSharesOutstandingBasic Namespace Prefix: us-gaap_Data Type: xbrli:sharesItemType Balance Type: na Period Type: durationNote Q-Leases (Details Textual) 12 Months Ended Dec. 31, 2024 Lessee, Lease, Option to Extend, Maximum Term (Year) 5 yearsLessee, Lease, Option to Terminate, Term (Year) 1 yearMinimum [Member] Lessee, Lease, Remaining Term of Contract (Year) 1 yearMaximum [Member] Lessee, Lease, Remaining Term of Contract (Year) 4 yearsX-DefinitionRepresents maximum terms of option to extend lessee's lease. ReferencesNo definition available. Details Name: zvrz_LesseeLeaseOptionToExtendMaximumTerm Namespace Prefix: zvrz_Data Type: xbrli:durationItemType Balance Type: na Period Type: durationX-DefinitionRepresents the terms of option to terminate lessee's lease. ReferencesNo definition available. Details Name: zvrz_LesseeLeaseOptionToTerminateTerm Namespace Prefix: zvrz_Data Type: xbrli:durationItemType Balance Type: na Period Type: durationX-DefinitionRemaining term of lessee's lease, in' PnYnMnDtHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. ReferencesNo definition available. Details Name: zvrz_LesseeLeaseRemainingTermOfContract Namespace Prefix: zvrz_Data Type: xbrli:durationItemType Balance Type: na Period Type: durationX-Details Name: srt_RangeAxis = srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X-Details Name: srt_RangeAxis = srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note Q-Leases- Lease Cost (Details)- USD (\$) \$ in Thousands 12 Months EndedDec. 31, 2024 Dec. 31, 2023Amortization of right-of-use assets \$ 44 \$ 102Interest on lease liabilitiesTotal finance lease costOperating lease costShort-term lease costVariable lease costLess: sublease income (128) (157) Total lease costs \$ 462 \$ 593X-DefinitionAmount of interest expense on finance lease liability. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 55-Paragraph 53-Publisher FASB-URI https://asc.fasb.org/1943274/2147479589/842-20-55-53>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479904/842-20-45-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479904/842-20-45-4)Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 55-Paragraph 53-Publisher FASB-URI https://asc.fasb.org/1943274/2147479589/842-20-55-53>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479904/842-20-45-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479904/842-20-45-4)Details Name: us-gaap_FinanceLeaseInterestExpense Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-DefinitionAmount of amortization expense attributable to right-of-use asset from finance lease. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 55-Paragraph 53-Publisher FASB-URI https://asc.fasb.org/1943274/2147479589/842-20-55-53>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479904/842-20-45-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479904/842-20-45-4)Details Name: us-gaap_FinanceLeaseRightOfUseAssetAmortization Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-DefinitionAmount of lease cost recognized by lessee for lease contract. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 55-Paragraph 53-Publisher FASB-URI https://asc.fasb.org/1943274/2147479589/842-20-55-53>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph \(a\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479904/842-20-45-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph (a)-Publisher FASB-URI https://asc.fasb.org/1943274/2147479904/842-20-45-4)Details Name: us-gaap_LeaseCost Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-DefinitionAmount of single lease cost, calculated by allocation of remaining cost of lease over remaining lease term. Includes, but is not limited to, single lease cost, after impairment of right-of-use asset, calculated by amortization of remaining right-of-use asset and accretion of lease liability. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 55-Paragraph 53-Publisher FASB-URI https://asc.fasb.org/1943274/2147479589/842-20-55-53>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph \(b\)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478964/842-20-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 50-Paragraph 4-Subparagraph (b)-Publisher FASB-URI https://asc.fasb.org/1943274/2147478964/842-20-50-4)Details Name: us-gaap_OperatingLeaseCost Namespace Prefix: us-gaap_Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: durationX-DefinitionAmount of short-term lease cost, excluding expense for lease with term of one month or less. ReferencesReference 1: [http://www.xbrl.org/2003/role/exampleRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 55-Paragraph 53-Publisher FASB-URI https://asc](http://www.xbrl.org/2003/role/exampleRef-Topic 842-SubTopic 20-Name Accounting Standards Codification-Section 55-Paragraph 53-Publisher FASB-URI https://asc.fasb.org/1943274/2147479589/842-20-55-53)

Standards Codification- Section 45- Paragraph 1- Subparagraph (b)- Publisher FASB- URI <https://asc.fasb.org/1943274/2147479041/842-20-45-1> Details Name: us-gaap_OperatingLeaseLiability Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instant Note R- Employee Benefit Plan (Details Textual)- USD (\$) \$ in Thousands 12 Months Ended Dec. 31, 2024 Dec. 31, 2023 Retirement Plan [Member] Defined Contribution Plan, Employer Matching Contribution, Percent of Employees' Gross Pay 4.00 % Defined Contribution Plan, Employer Discretionary Contribution Amount \$ 500 \$ 300 Profit Sharing Plan [Member] Defined Contribution Plan, Employer Discretionary Contribution Amount \$ 0 \$ 0 Defined Contribution Plan, Requisite Service Period (Year) 3 years X- Definition Amount of discretionary contributions made by an employer to a defined contribution plan. References No definition available. Details Name: us-gaap_DefinedContributionPlanEmployerDiscretionaryContributionAmount Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: duration X- Definition Percentage of employees' gross pay for which the employer contributes a matching contribution to a defined contribution plan. References No definition available. Details Name: us-gaap_DefinedContributionPlanEmployerMatchingContributionPercent Namespace Prefix: us-gaap_ Data Type: dtm: types: percentItemType Balance Type: na Period Type: duration X- Definition Minimum period employees are required to perform services to become eligible under the defined contribution plan, in 'PnYnMndTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. References No definition available. Details Name: zvrz_DefinedContributionPlanRequisiteServicePeriod Namespace Prefix: zvrz_ Data Type: xbrli: durationItemType Balance Type: na Period Type: duration X- Details Name: us-gaap_RetirementPlanNameAxis = zvrz_RetirementPlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_RetirementPlanNameAxis = zvrz_ProfitSharingPlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note S- Goodwill & Intangible Assets (Details Textual)- USD (\$) \$ in Thousands 12 Months Ended Dec. 31, 2024 Dec. 31, 2023 Goodwill \$ 4,701 \$ 4,701 Indefinite-Lived Intangible Assets (Excluding Goodwill) 2,000 2,000 Finite-Lived Intangible Assets, Net \$ 61,300 \$ 67,200 Finite-Lived Intangible Asset, Useful Life (Year) 13 years 11 years Amortization of Intangible Assets \$ 6,235 \$ 772 Payments to Acquire Intangible Assets 6,000 (0) Impairment of Intangible Assets, Finite-Lived Intangible Assets, Amortization Period [Member] Finite-Lived Intangible Assets, Net Amortization of Intangible Assets \$ 200 Patents [Member] Finite-Lived Intangible Asset, Useful Life (Year) 13 years Patents [Member] XOMA License Agreement [Member] Finite-Lived Intangible Asset, Useful Life (Year) 5 years Amortization of Intangible Assets \$ 300 Patents [Member] XOMA License Agreement [Member] Capitalization, Royalty Expense [Member] Payments to Acquire Intangible Assets 6,000 OLPRUVA [Member] Finite-Lived Intangible Assets, Net \$ 61,300 \$ 67,200 X- Definition The aggregate expense charged against earnings to allocate the cost of intangible assets (nonphysical assets not used in production) in a systematic and rational manner to the periods expected to benefit from such assets. As a noncash expense, this element is added back to net income when calculating cash provided by or used in operations using the indirect method. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph\(b\)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(b)-SubTopic10-Topic230-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28) Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40> Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(2\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(2)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2) Reference 4: <http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482686/350-30-45-2> Details Name: us-gaap_AmortizationOfIntangibleAssets Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: duration X- Definition Useful life of finite-lived intangible assets, in 'PnYnMndTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. References No definition available. Details Name: us-gaap_FiniteLivedIntangibleAssetUsefulLife Namespace Prefix: us-gaap_ Data Type: xbrli: durationItemType Balance Type: na Period Type: instant X- Definition Amount after amortization of assets, excluding financial assets and goodwill, lacking physical substance with a finite life. References Reference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2) Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic926-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph5-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147483154/926-20-50-5> Details Name: us-gaap_FiniteLivedIntangibleAssetsNet Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X- Definition Amount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic280-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph49-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482785/280-10-55-49> Reference 2: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section55-Paragraph24-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482548/350-20-55-24> Reference 3: [http://www.xbrl.org/2003/role/exampleRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph100-Subparagraph\(d\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482078/820-10-55-100](http://www.xbrl.org/2003/role/exampleRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph100-Subparagraph(d)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482078/820-10-55-100) Reference 4: <http://www.xbrl.org/2003/role/exampleRef-Topic852-SubTopic10-NameAccountingStandardsCodification-Section55-Paragraph10-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481372/852-10-55-10> Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic210-SubTopic10-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph\(SX210.5-02\(15\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic210-SubTopic10-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph(SX210.5-02(15))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480566/210-10-S99-1) Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section45-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482598/350-20-45-1> Reference 7: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482573/350-20-50-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482573/350-20-50-1) Reference 8: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482573/350-20-50-1](http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482573/350-20-50-1) Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic942-SubTopic210-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph\(SX210.9-03\(10\)\(1\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478546/942-210-S99-1](http://www.xbrl.org/2003/role/disclosureRef-Topic942-SubTopic210-NameAccountingStandardsCodification-Section599-Paragraph1-Subparagraph(SX210.9-03(10)(1))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147478546/942-210-S99-1) Details Name: us-gaap_Goodwill Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X- Definition The amount of impairment loss recognized in the period resulting from the write-down of the carrying amount of a finite-lived intangible asset to fair value. References Reference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482686/350-30-45-2> Reference 2: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph3-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-3](http://www.xbrl.org/2009/role/commonPracticeRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph3-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-3) Reference 3: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28) Details Name: us-gaap_ImpairmentOfIntangibleAssetsFinitelived Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: duration X- Definition Amount of assets, excluding financial assets and goodwill, lacking physical substance and having a projected indefinite period of benefit. References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40> Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic10-NameAccountingStandardsCodification-Section545-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480265/350-10-S45-1> Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2) Details Name: us-gaap_IndefiniteLivedIntangibleAssetsExcludingGoodwill Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X- Definition The cash outflow to acquire asset without physical form usually arising from contractual or other legal rights, excluding goodwill. References Reference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph13-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-13](http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph13-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-13) Details Name: us-gaap_PaymentsToAcquireIntangibleAssets Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: duration X- Details Name: us-gaap_ChangeInAccountingEstimateByTypeAxis = us-gaap_IntangibleAssetsAmortizationPeriodMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_FiniteLivedIntangibleAssetsByMajorClassAxis = us-gaap_PatentsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_TypeOfArrangementAxis = zvrz_XomaLicenseAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_CapitalizedContractCostAxis = zvrz_CapitalizationRoyaltyExpenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_BusinessAcquisitionAxis = zvrz_OlpruvaMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note S- Goodwill & Intangible Assets- Amortization of Intangible Assets (Details) \$ in Thousands Dec. 31, 2024 USD (\$) \$ 6,461.6, 461.6, 461.6, 461.5, 830 X- Definition Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2) Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2> Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X- Definition Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2) Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2> Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X- Definition Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2) Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2> Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X- Definition Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2) Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2> Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X- Definition Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2) Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2> Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X- Definition Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2) Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2> Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X- Definition Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2) Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2> Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X- Definition Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2) Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2> Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X- Definition Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). References Reference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40> Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2) Reference 3: <http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2> Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instant X- Definition Amount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). References Reference 1: [http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org](http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40)

2147482640 / 350-30-55-40Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2) Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFive Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2) Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearFour Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2) Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearThree Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of amortization for assets, excluding financial assets and goodwill, lacking physical substance with finite life expected to be recognized in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph40-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482640/350-30-55-40>Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic350-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482665/350-30-50-2)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(a\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic985-SubTopic20-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(a)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481283/985-20-50-2) Details Name: us-gaap_FiniteLivedIntangibleAssetsAmortizationExpenseYearTwo Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantNote T- Merger (Details Textual) \$ / shares in Units, \$ in Thousands1 Months Ended 12 Months EndedNov. 22, 2023 sharesNov. 17, 2023 USD (\$) \$ / shares sharesAug. 30, 2023 USD (\$) sharesJun. 16, 2023 USD (\$) \$ / shares sharesJan. 31, 2023 USD (\$) sharesMar. 14, 2022 USD (\$) Nov. 30, 2023 sharesDec. 31, 2024 USD (\$) sharesDec. 31, 2023 USD (\$) sharesOct. 31, 2023 USD (\$) Stock Issued During Period, Shares, Acquisitions (in shares) | shares 1, 382, 489 7, 530, 509 Stock Issued During Period, Shares, New Issues (in shares) | shares 10, 615, 385 Stock Issued During Period, Value, New Issues \$ 6, 106 The Investor Warrant [Member] Stock Issued During Period, Shares, New Issues (in shares) | shares 917, 934 917, 934 Class of Warrant or Right, Number of Securities Called by Warrants or Rights (in shares) | shares 2, 920, 306 2, 920, 306 SWK Loans [Member] Payments to Acquire Notes Receivable \$ 12, 000 \$ 12, 000 Stock Issued During Period, Shares, Acquisitions (in shares) | shares 98, 683 98, 683 Marathon Convertible Notes [Member] Stock Issued During Period, Shares, Acquisitions (in shares) | shares 2, 171, 038 Asset Acquisition, Share Price (in dollars per share) | \$ / shares \$ 5, 0667 Asset Acquisition, Consideration Transferred \$ 11, 000 SWK Loans and Marathon Notes [Member] Payments to Acquire Notes Receivable \$ 12, 000 Stock Issued During Period, Shares, Acquisitions (in shares) | shares 2, 270, 000 Asset Acquisition, Consideration Transferred, Equity Interest Issued and Issuable \$ 11, 500 VWAP, Consecutive Trading Days (Year) 20 years Nantahala Note [Member] Debt Instrument, Face Amount \$ 5, 000 \$ 5, 000 \$ 5, 000 Acer Therapeutics Inc [Member] License Agreement and Termination Agreement [Member] Relief [Member] Maximum Royalty Percentage 20. 00 % Upfront Payment \$ 10, 000 Additional Payment on First Anniversary 1, 500 Maximum Royalty Obligation \$ 45, 000 Acer Therapeutics Inc [Member] License Agreement and Termination Agreement [Member] Relief [Member] Europe [Member] Maximum Royalty Percentage 10. 00 % Acer Therapeutics Inc [Member] License Agreement and Termination Agreement [Member] Relief [Member] Worldwide, Excluding Europe [Member] Maximum Royalty Percentage 10. 00 % Acer Therapeutics Inc [Member] SWK Loans [Member] Proceeds from Issuance of Long- Term Debt \$ 7, 000 \$ 6, 500 Maximum [Member] Acer Therapeutics Inc [Member] License Agreement and Termination Agreement [Member] Relief [Member] Contractual Obligation \$ 56, 500 Bridge Loan [Member] Financing Receivable, Maximum Limit 18, 000 \$ 18, 000Bridge Loan [Member] Minimum [Member] Financing Receivable, Maximum Limit 16, 500 Acer Therapeutics Inc [Member] Business Combination, Consideration Transferred, Equity Interests Issued and Issuable, Conversion Ratio 0. 121 Business Acquisition, Share Price (in dollars per share) | \$ / shares \$ 0. 0001 Business Combination, Contingent Consideration Arrangements, Range of Outcomes, Value, High \$ 76, 000 Business Combination, Consideration Transferred \$ 72, 600 Business Acquisition, Equity Interest Issued or Issuable, Number of Shares (in shares) | shares 2, 960, 000 Business Combination, Consideration Transferred, Equity Interests Issued and Issuable \$ 12, 800 Business Combination, Contingent Consideration, Liability 8, 500 \$ 3, 500 \$ 7, 262 Repayments of Notes Payable \$ 1, 000 Gain (Loss) on Contingent Consideration, Change in Fair Value \$ 3, 700 Acer Therapeutics Inc [Member] Acer Warrants [Member] Stock Issued During Period, Shares, New Issues (in shares) | shares 900, 000 Stock Issued During Period, Value, New Issues \$ 4, 000 Acer Therapeutics Inc [Member] Bridge Loan [Member] Business Combination, Consideration Transferred, Other \$ 17, 800 \$ 16, 500 X- DefinitionAmount of consideration transferred in asset acquisition. Includes, but is not limited to, cash, liability incurred by acquirer, and equity interest issued by acquirer. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic805-SubTopic50-NameAccountingStandardsCodification-Section55-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479908/805-50-55-1>Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic805-SubTopic50-NameAccountingStandardsCodification-Section25-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480060/805-50-25-1>Reference 3: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic805-SubTopic50-NameAccountingStandardsCodification-Section30-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480027/805-50-30-1>Reference 4: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic805-SubTopic50-NameAccountingStandardsCodification-Section30-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480027/805-50-30-2> Details Name: us-gaap_AssetAcquisitionConsiderationTransferred Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionAmount of acquirer's equity interest issued and issuable as part of consideration transferred in asset acquisition. ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic805-SubTopic50-NameAccountingStandardsCodification-Section25-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480060/805-50-25-1>Reference 2: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic805-SubTopic50-NameAccountingStandardsCodification-Section30-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480027/805-50-30-1>Reference 3: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic805-SubTopic50-NameAccountingStandardsCodification-Section30-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480027/805-50-30-2> Details Name: us-gaap_AssetAcquisitionConsiderationTransferredEquityInterestIssuedAndIssuable Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionNumber of shares of equity interests issued or issuable to acquire entity. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic805-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(b\)\(4\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479581/805-30-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic805-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(b)(4)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479581/805-30-50-1) Details Name: us-gaap_BusinessAcquisitionEquityInterestsIssuedOrIssuableNumberOfSharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: durationX- DefinitionPrice of a single share of a number of saleable stocks paid or offered to be paid in a business combination. ReferencesNo definition available. Details Name: us-gaap_BusinessAcquisitionSharePrice Namespace Prefix: us-gaap_ Data Type: dtr- types: perShareItemType Balance Type: na Period Type: instantX- DefinitionAmount of consideration transferred, consisting of acquisition- date fair value of assets transferred by the acquirer, liabilities incurred by the acquirer, and equity interest issued by the acquirer. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section30-Paragraph8-SubTopic30-Topic805-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479637/805-30-30-8>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(b\)-SubTopic30-Topic805-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479581/805-30-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(b)-SubTopic30-Topic805-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479581/805-30-50-1)Reference 3: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section30-Paragraph7-SubTopic30-Topic805-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479637/805-30-30-7> Details Name: us-gaap_BusinessCombinationConsiderationTransferred1 Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionAmount of equity interests of the acquirer, including instruments or interests issued or issuable in consideration for the business combination. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section30-Paragraph8-SubTopic30-Topic805-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479637/805-30-30-8>Reference 2: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section30-Paragraph7-SubTopic30-Topic805-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479637/805-30-30-7> Details Name: us-gaap_BusinessCombinationConsiderationTransferredEquityInterestsIssuedAndIssuable Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionAmount of tangible or intangible assets, including a business or subsidiary of the acquirer transferred by the entity to the former owners of the acquiree. Excludes cash. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(b\)\(2\)-SubTopic30-Topic805-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479581/805-30-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(b)(2)-SubTopic30-Topic805-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479581/805-30-50-1) Details Name: us-gaap_BusinessCombinationConsiderationTransferredOther1 Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit

Period Type: durationX- DefinitionFor contingent consideration arrangements recognized in connection with a business combination, this element represents an estimate of the high- end of the potential range (undiscounted) of the consideration which may be paid. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic30-Section50-Paragraph1-Subparagraph\(c\)\(3\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479581/805-30-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic30-Section50-Paragraph1-Subparagraph(c)(3)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479581/805-30-50-1) Details Name: us- gaap_ BusinessCombinationContingentConsiderationArrangementsRangeOfOutcomesValueHigh Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAmount of liability recognized arising from contingent consideration in a business combination. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(bbb\)\(2\)\(i\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(bbb)(2)(i)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2) Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(bbb\)\(2\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(bbb)(2)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2) Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(bbb\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(bbb)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2) Reference 4: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic805-SubTopic30-NameAccountingStandardsCodification-Section35-Paragraph1-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479613/805-30-35-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic805-SubTopic30-NameAccountingStandardsCodification-Section35-Paragraph1-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479613/805-30-35-1) Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic805-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(c\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479581/805-30-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic805-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(c)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479581/805-30-50-1) Reference 6: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic30-Section25-Paragraph6-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479668/805-30-25-6> Details Name: us- gaap_ BusinessCombinationContingentConsiderationLiability Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionNumber of securities into which the class of warrant or right may be converted. For example, but not limited to, 500, 000 warrants may be converted into 1, 000, 000 shares. ReferencesReference 1: <http://www.xbrl.org/2003/role/disclosureRef-Topic505-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph3-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481112/505-10-50-3> Details Name: us- gaap_ ClassOfWarrantOrRightNumberOfSecuritiesCalledByWarrantsOrRights Namespace Prefix: us- gaap_ Data Type: xbrli: sharesItemType Balance Type: na Period Type: instantX- DefinitionAmount of contractual obligation, including, but not limited to, long- term debt, lease obligation, purchase obligation, and other commitments. ReferencesReference 1: <http://www.xbrl.org/2009/role/commonPracticeRef-Topic235-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph3-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147480678/235-10-S99-3> Details Name: us- gaap_ ContractualObligation Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionFace (par) amount of debt instrument at time of issuance. ReferencesReference 1: <http://www.xbrl.org/2003/role/exampleRef-Topic835-SubTopic30-NameAccountingStandardsCodification-Section55-Paragraph8-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482949/835-30-55-8> Reference 2: <http://www.xbrl.org/2003/role/disclosureRef-Topic470-SubTopic20-50-1BReference3:> <http://www.xbrl.org/2003/role/exampleRef-Topic470-SubTopic20-NameAccountingStandardsCodification-Section55-Paragraph69B-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481568/470-20-55-69B> Reference 4: <http://www.xbrl.org/2003/role/exampleRef-Topic470-SubTopic20-NameAccountingStandardsCodification-Section55-Paragraph69C-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147481568/470-20-55-69C> Reference 5: <http://www.xbrl.org/2003/role/disclosureRef-Topic835-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph1-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482900/835-30-50-1> Reference 6: <http://www.xbrl.org/2003/role/disclosureRef-Topic835-SubTopic30-NameAccountingStandardsCodification-Section45-Paragraph2-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482925/835-30-45-2> Details Name: us- gaap_ DebtInstrumentFaceAmount Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionThe cash outflow to acquire an agreement for an unconditional promise by the maker to pay the entity (holder) a definite sum of money at a future date. Such amount may include accrued interest receivable in accordance with the terms of the note. The note also may contain provisions including a discount or premium, payable on demand, secured, or unsecured, interest bearing or noninterest bearing, among myriad other features and characteristics. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section45-Paragraph13-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-13](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section45-Paragraph13-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-13) Details Name: us- gaap_ PaymentsToAcquireNotesReceivable Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionThe cash inflow from a debt initially having maturity due after one year or beyond the operating cycle, if longer. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph\(SX210.6-03\(i\)\(1\)\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479886/946-10-S99-3](http://www.xbrl.org/2003/role/disclosureRef-Topic946-SubTopic10-NameAccountingStandardsCodification-SectionS99-Paragraph3-Subparagraph(SX210.6-03(i)(1))-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479886/946-10-S99-3) Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section45-Paragraph14-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-14](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic230-SubTopic10-Section45-Paragraph14-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-14) Details Name: us- gaap_ ProceedsFromIssuanceOfLongTermDebt Namespace Prefix: us- gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionThe cash outflow for a borrowing supported by a written promise to pay an obligation. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic23](http://fasb.org/us-gaap/role/ref/legacyRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph15-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-15)

Balance Type: na Period Type: instantX- DefinitionThe maximum limit of the financing receivable. ReferencesNo definition available. Details Name: vzra_FinancingReceivableMaximumLimit Namespace Prefix: vzra_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionRepresents the gain / (loss) on contingent consideration from the changes in fair value over the period. ReferencesNo definition available. Details Name: vzra_GainLossOnContingentConsiderationChangeInFairValue Namespace Prefix: vzra_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionAmount of maximum royalty obligation. ReferencesNo definition available. Details Name: vzra_MaximumRoyaltyObligation Namespace Prefix: vzra_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionPercentage of maximum royalty. ReferencesNo definition available. Details Name: vzra_MaximumRoyaltyPercentage Namespace Prefix: vzra_Data Type: dtr- types: percentItemType Balance Type: na Period Type: instantX- DefinitionAmount of upfront payment. ReferencesNo definition available. Details Name: vzra_UpfrontPayment Namespace Prefix: vzra_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: durationX- DefinitionThe consecutive trading days for VWAP. ReferencesNo definition available. Details Name: vzra_VwapConsecutiveTradingDays Namespace Prefix: vzra_Data Type: xbrli: durationItemType Balance Type: na Period Type: durationX- Details Name: us-gaap_ClassOfWarrantOrRightAxis = vzra_TheInvestorWarrantMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_AssetAcquisitionAxis = vzra_SWKLoansMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_AssetAcquisitionAxis = vzra_MarathonConvertibleNotesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_AssetAcquisitionAxis = vzra_SWKLoansAndMarathonNotesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_DebtInstrumentAxis = vzra_NantahalaNoteMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: dei_LegalEntityAxis = vzra_AcerTherapeuticsIncMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_TypeOfArrangementAxis = vzra_LicenseAgreementAndTerminationAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_CounterpartyNameAxis = vzra_ReliefMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_StatementGeographicalAxis = srt_EuropeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_StatementGeographicalAxis = vzra_WorldwideExcludingEuropeMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_DebtInstrumentAxis = vzra_SWKLoansMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_AccountsNotesLoansAndFinancingReceivableByReceivableTypeAxis = us-gaap_BridgeLoanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: srt_RangeAxis = srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_BusinessAcquisitionAxis = vzra_AcerTherapeuticsIncMember Namespace Prefix: Data Type: na Balance Type: Period Type: X- Details Name: us-gaap_ClassOfWarrantOrRightAxis = vzra_AcerWarrantsMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note T- Merger- Estimates and Assumptions Related to Fair Value of Assets and Liabilities Acquired (Details)- USD (\$) \$ in Thousands Dec. 31, 2024 Dec. 31, 2023 Nov. 17, 2023Cash \$ 575Prepaid expenses Other current assets Inventory 9, 376Property, plant, and equipment Other noncurrent assets Approved product- OLPVU 68, 000IPR & D- cappelrol 2, 000Goodwill acquired \$ 4, 701 \$ 4, 701 Business Combination, Recognized Identifiable Assets Acquired and Liabilities Assumed, Assets 85, 022Accounts payable and accrued expenses 10, 718Deferred collaboration funding 1, 500Operating lease liabilities Business Combination, Recognized Identifiable Assets Acquired and Liabilities Assumed, Liabilities 12, 393Fair Value of Net Assets Acquired 72, 629Acer Therapeutics Inc [Member] Goodwill acquired \$ 4, 538X- DefinitionAmount of assets acquired at the acquisition date. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1) Details Name: us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedAssets Namespace Prefix: us-gaap_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions, acquired at the acquisition date. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short- term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1) Details Name: us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedCashAndEquivalents Namespace Prefix: us-gaap_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of other assets expected to be realized or consumed before one year or the normal operating cycle, if longer, acquired at the acquisition date. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1) Details Name: us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedCurrentAssetsOther Namespace Prefix: us-gaap_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionThe amount of identifiable intangible assets recognized as of the acquisition date. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic10-Section55-Paragraph37-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479303/805-10-55-37>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1) Details Name: us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedIntangibles Namespace Prefix: us-gaap_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionThe amount of inventory recognized as of the acquisition date. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic10-Section55-Paragraph37-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479303/805-10-55-37>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1) Details Name: us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedInventory Namespace Prefix: us-gaap_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of liabilities assumed at the acquisition date. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1) Details Name: us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedLiabilities Namespace Prefix: us-gaap_Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAmount of other assets expected to be realized or consumed after one year or the normal operating cycle, if longer, acquired at the acquisition date. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1) Details Name: us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedNoncurrentAssets Namespace Prefix: us-gaap_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionThe amount of property, plant, and equipment recognized as of the acquisition date. ReferencesReference 1: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic10-Section55-Paragraph37-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479303/805-10-55-37>Reference 2: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479907/805-20-50-1) Details Name: us-gaap_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedPropertyPlantAndEquipment Namespace Prefix: us-gaap_Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount recognized for assets, including goodwill, in excess of (less than) the aggregate liabilities assumed. ReferencesReference 1: [http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph\(c\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479303/805-10-55-37](http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic20-Section50-Paragraph1-Subparagraph(c)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479303/805-10-55-37)Reference 2:

SubTopic 20- Name Accounting Standards Codification- Section 50- Paragraph 1- Subparagraph (h)- Publisher FASB- URI <https://asc.fasb.org/1943274/2147482573/350-20-50-1>Reference 9: [http://www.xbrl.org/2003/role/disclosureRef-Topic942-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph\(SX210.9-03\(10\)\(1\)\)](http://www.xbrl.org/2003/role/disclosureRef-Topic942-SubTopic210-NameAccountingStandardsCodification-SectionS99-Paragraph1-Subparagraph(SX210.9-03(10)(1)))- Publisher FASB- URI <https://asc.fasb.org/1943274/2147478546/942-210-S99-1> Details Name: us-gaap_Goodwill Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of liability incurred for accounts payable and accrued expenses assumed at acquisition date. ReferencesNo definition available. Details Name: zvrz_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedAccountsPayableAndAccruedExpenses Namespace Prefix: zvrz_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAmount of the approved product, OLPRUVA, acquired at the acquisition date. ReferencesNo definition available. Details Name: zvrz_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedApprovedProductOlpruva Namespace Prefix: zvrz_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: instantX- DefinitionAmount of liabilities incurred for deferred collaboration funding assumed on the acquisition date. ReferencesNo definition available. Details Name: zvrz_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedDeferredCollaborationFunding Namespace Prefix: zvrz_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- DefinitionAmount of liabilities incurred for operating leases assumed at the acquisition date. ReferencesNo definition available. Details Name: zvrz_BusinessCombinationRecognizedIdentifiableAssetsAcquiredAndLiabilitiesAssumedOperatingLeaseLiabilities Namespace Prefix: zvrz_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- Details Name: us-gaap_BusinessAcquisitionAxis = zvrz_AcerTherapeuticsIncMember Namespace Prefix: Data Type: na Balance Type: Period Type: Note T- Merger- Reconciliation of Contingent Consideration Liabilities (Details)- Acer Therapeutics Inc | Member | \$ in Thousands 12 Months EndedDec. 31, 2024 USD (\$) Balance \$ 7,262Change in fair value recognized in earnings (3,762) Balance \$ 3,500X- DefinitionAmount of increase (decrease) in the value of a contingent consideration liability, including, but not limited to, differences arising upon settlement. ReferencesReference 1: [http://www.xbrl.org/2009/role/commonPracticeRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph\(a\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28](http://www.xbrl.org/2009/role/commonPracticeRef-Topic230-SubTopic10-NameAccountingStandardsCodification-Section45-Paragraph28-Subparagraph(a)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482740/230-10-45-28)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic805-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph4-Subparagraph\(a\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479581/805-30-50-4](http://www.xbrl.org/2003/role/disclosureRef-Topic805-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph4-Subparagraph(a)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479581/805-30-50-4) Details Name: us-gaap_BusinessCombinationContingentConsiderationArrangementsChangeInAmountOfContingentConsiderationLiability1 Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: debit Period Type: durationX- DefinitionAmount of liability recognized arising from contingent consideration in a business combination. ReferencesReference 1: [http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(bbb\)\(2\)\(i\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(bbb)(2)(i)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2)Reference 2: [http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(bbb\)\(2\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(bbb)(2)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2)Reference 3: [http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph\(bbb\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2](http://www.xbrl.org/2003/role/disclosureRef-Topic820-SubTopic10-NameAccountingStandardsCodification-Section50-Paragraph2-Subparagraph(bbb)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147482106/820-10-50-2)Reference 4: [http://fasb.org/us-gaap/role/ref/legacyRef-Topic805-SubTopic30-NameAccountingStandardsCodification-Section35-Paragraph1-Subparagraph\(b\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479613/805-30-35-1](http://fasb.org/us-gaap/role/ref/legacyRef-Topic805-SubTopic30-NameAccountingStandardsCodification-Section35-Paragraph1-Subparagraph(b)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479613/805-30-35-1)Reference 5: [http://www.xbrl.org/2003/role/disclosureRef-Topic805-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph\(c\)\(1\)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479581/805-30-50-1](http://www.xbrl.org/2003/role/disclosureRef-Topic805-SubTopic30-NameAccountingStandardsCodification-Section50-Paragraph1-Subparagraph(c)(1)-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479581/805-30-50-1)Reference 6: <http://fasb.org/us-gaap/role/ref/legacyRef-NameAccountingStandardsCodification-Topic805-SubTopic30-Section25-Paragraph6-PublisherFASB-URIhttps://asc.fasb.org/1943274/2147479668/805-30-25-6> Details Name: us-gaap_BusinessCombinationContingentConsiderationLiability Namespace Prefix: us-gaap_ Data Type: xbrli: monetaryItemType Balance Type: credit Period Type: instantX- Details Name: us-gaap_BusinessAcquisitionAxis = zvrz_AcerTherapeuticsIncMember Namespace Prefix: Data Type: na Balance Type: Period Type: