UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

FORM 10-K

 $\underline{\text{(Mark one)}}$ \boxtimes ANNUAL REPORT PURSUANT TO SECTION 13 or 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended July 31, 2023

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	FOI	the transition period from			
		Commission File N	umber 001-09974		
		ENZO BIOC (Exact name of registrant a			
	New York			13-286	6202
,	ate or other jurisdiction of orporation or organization			(I.R.S. Er Identificat	
81	Executive Blvd. Suite 3			1173	25
(Address	Farmingdale, NY s of principal executive of	ffices)		(Zip C	
		(631) 75	5-5500		
		(Registrant's telephone num			
Securities registered pursuant	t to Section 12(b) of the A	Act:			
Title of Each	Class	Trading	Symbol	Name of I	Each Exchange on Which Registered
Common Stock, \$.		EN			he New York Stock Exchange
S-T during the preceding 12 mo Indicate by check mark whether months (or for such shorter peri Indicate by check mark whether	on this (or for such shorter parties of the registrant (1) has file od that the registrant was a large a	d all reports required to be filed required to file such reports), an occelerated filer, an accelerated f	by Section 13 or 15(d) of ad (2) has been subject to filer, a non-accelerated file	such files). Yes No The Securities Exchange requirements, a smaller reporting	sted pursuant to Rule 405 of Regulation o nange Act of 1934 during the preceding 12 nents for the past 90 days. Yes No g company or an emerging growth pany" in Rule 12b-2 of the Exchange Act.
Large accelerated filer □	Accelerated filer □	Non-accelerated filer	Smaller reporting comp	pany ⊠	Emerging growth company □
If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. \Box					
Indicate by check mark whether reporting under Section 404(b)					of its internal control over financial or issued its audit report. □
If securities are registered pursu correction of an error to previou			hether the financial stater	ments of the registra	nt included in the filing reflect the
Indicate by check mark whether registrant's executive officers de				fincentive-based co	mpensation received by any of the
Indicate by check mark whether	the registrant is a shell co	ompany (as defined in Rule 12b	-2 of the Act of 1934). Ye	s□ No ⊠	
The aggregate market value of t	the registrant's voting stoc	k held by non-affiliates of the r	egistrant was approximate	ely \$56,384,000 as o	of January 31, 2023.
The number of shares of the Co	mpany's common stock, S	8.01 par value, outstanding at O	ctober 27, 2023 was 50,48	39,771.	
		DOCUMENTS INCORPOR	ATED BY REFERENCE	3	

Portions of the definitive Proxy Statement to be delivered to shareholders in connection with the Annual Meeting of Shareholders to be held on or before January 31, 2024 are

incorporated by reference into Part III of this annual report.

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PART I

Item 1. Business

Overview

Enzo Biochem, Inc. (the "Company" "we", "our" or "Enzo"), a pioneer in molecular diagnostics, contributes to advancing healthcare with its comprehensive portfolio of technical platforms and reagent sets supporting a diverse range of biomedical research and translational science needs. A leader in innovation and product development, for over 45 years scientists have trusted Enzo Biochem to manufacture and supply a comprehensive portfolio of thousands of high-quality products, including antibodies, genomic probes, assays, biochemicals, and proteins. The Company's proprietary products and technologies play central roles in all translational research and drug development areas, including cell biology, genomics, assays, immunohistochemistry, and small molecule chemistry. Enzo Biochem, Inc.'s Life Science division supports the work of research centers and industry partners, shaping the future of healthcare worldwide. Enzo Biochem, Inc. has a broad and deep intellectual property portfolio, with patent coverage across many vital enabling technologies.

In the course of our research and development activities, we have built a substantial portfolio of intellectual property assets, comprised of 457 owned patents worldwide and 59 pending patent applications, to date, along with extensive enabling technologies and platforms. Some of this extensive portfolio supports and protects our position in the life sciences market.

Discontinued Operations

In fiscal 2023, our Board of Directors and management undertook a comprehensive review of our business and long-term strategy and developed a plan to simplify our operations and focus on Enzo Life Sciences. In July 2023, we executed this plan by means of the sale of certain assets used in the operation of Enzo Clinical Labs and the assignment of certain clinical lab liabilities to Laboratory Corporation of America Holdings for \$113.25 million, pursuant to an Asset Purchase Agreement dated March 16, 2023, as amended July 3, 2023. In accordance with the sale, Enzo Biochem ceased its clinical laboratory operations.

Our Strategy

With the exit from the clinical lab segment, we are positioned as a focused life science solutions provider emphasizing sustainable, profitable growth. Key elements of our growth strategy include:

- Pin-pointed R&D investment for accelerated product launches,
- Channel investment and alignment to increase customer and partner touchpoints,
- Market expansion into adjacent space supported by our current experience and customer relationships,
- Operational optimization for cost containment and development of an infrastructure capable of supporting growth

Operating Segment

As of July 31, 2023, we have one reportable segment: Products. This segment evolved from our core technical competencies involving the use of nucleic acids, proteins and cells as informational molecules and the use of compounds for immune modulation and later augmented by previous acquisitions of a number of related companies. Costs excluded from segment's performance consist of corporate general and administrative costs not allocable to the operating segment and are reported as "Corporate and Other". Financial information by geographic area and business segments for the fiscal years ended July 31, 2023 and 2022 is located in Note 18 – Segment Reporting in the Notes to Consolidated Financial Statements. During fiscal year ended July 31, 2022 we had another operating segment, Enzo Therapeutics. The operating results of Enzo Therapeutics are now also included in the "Corporate and Other" segment.

The Products segment manufactures, develops and markets products and tools for clinical research, translational research, drug development and bioscience research customers worldwide. Underpinned by broad technological capabilities, Enzo Life Sciences has developed proprietary products used in the identification of genomic information by laboratories around the world. Information regarding our technologies can be found in the "Core Technologies" section. We are internationally recognized and acknowledged as a leader in the development, manufacturing validation and commercialization of numerous products serving the fields of cellular analysis and drug discovery, among others. Our operations are supported by global operations allowing for the efficient marketing and delivery of our products around the world. During the fiscal years ended July 31, 2023 and 2022, the segment generated product revenues of \$31.1 million and \$32.6 million, respectively.

Markets

Life Sciences -- Drug Discovery, Development and Diagnostics

This broad market includes technology platforms and products used by a wide array of customer types including: academic researchers, clinical researchers, biotechnology and pharmaceutical companies and diagnostic manufacturers. Our broad spectrum of products such as labels, dyes, antibodies, genomic probes, immunoassays, biochemicals, and proteins are used to label, detect and visualize a biological target of interest in drug discovery exploration and drug development process development. Enzo leverages its differentiated capabilities in labeling and detection, assay kitting and validations, and integrated manufacturing to serve as a "one stop shop" for 20,000 reagents that are critical to workflows across various technologies and applications, validated by over 150,000 scientific publications. We are a global manufacturer of cost-effective, high-quality solutions to enable drug discovery, development and translational research workflows supported by Good Manufacturing Practice ("GMP") manufacturing. We have market expertise in genomic analysis, protein analysis, cellular analysis, tissue analysis, small molecule chemistry, GMP and custom services.

There is a large and growing global demand by biomedical and pharmaceutical companies for research and diagnostic tools that both facilitate and accelerate the generation of biological information. This demand can be met by gene and protein target-based diagnostics for which a variety of formats and tools have been developed that enable researchers to study biological pathways. These tools can identify mutations in gene sequences and variations in gene expression levels that can lead to disease, or they can quantify biomarkers that provide insight into disease and potential therapeutic solutions. These techniques use instruments such as DNA sequencing and genotyping equipment, microarrays, fluorescent microscopes, high content screening platforms, flow cytometers and plate readers. Common among these instruments is the need for reagents that allow the identification, quantification and characterization of interactions of specific genes or nucleic acid sequences, proteins, cells, and other cellular structures and organelles.

We believe this market will continue to grow as a result of:

- long term commitment to research spending by academic, government and private organizations to determine the function and clinical relevance of the gene sequences and proteins that have been identified by genomics research, as well as investments in nucleic acid and protein detection in various sample mediums
- development of commercial applications based on information derived from this research expansion into new methods of visualization and detection including a multidimensional approach to visualize results such as spatial biology and,
- on-going advancements in tools that accelerate these research and development activities.

Strategy

We will focus on one market segment with our technical strength and operational prowess. We will focus on offering sensitive, specific and consistent products for the Life Sciences market. To achieve this, we will focus on common workflows and apply Enzo's innovative technical expertise to each platform part in order to achieve integrative efficient, useful solutions that provide insight to the scientific results not possible when applying alternate tools. This is balanced with an operational focus on cost containment and operational process efficiency.

Our objective is to continue to develop and manufacture high value, reliable life science products and services using our proprietary technologies to allow our customers to meet their discovery and development needs. Our strong intellectual property estate provides freedom to operate and compete in a rapidly growing and developing healthcare marketplace.

Increase investment in research and development & product development and accelerate product pipeline

We are focusing our research and development efforts to translate our technological know-how into relevant products including a continued focus on the development of detection systems for nucleic acid, protein, cell and tissue analysis.

Current technology platforms under development include:

- AMPIVIEW[®] in situ hybridization probes for enhanced detection of low expressed targets useful in the growing Spatial biology space.
- Reagents and assays for Cell and Gene Therapy research and development
- POLYVIEW PLUS[®] Enhanced Immunohistochemistry optimized reagents for clear, consistent immunohistochemistry and in situ hybridization results moving Pathology to the next generation Enzo's POLYVIEW PLUS[®] Enhanced Immunohistochemistry platform offers solutions within the area of Anatomical Pathology through optimized assays for clear, consistent immunohistochemistry and in situ hybridization results moving Pathology to the next generation. This platform has been used in conjunction with validated biomarkers for detecting cancers and their progression especially in the areas of women's health.
- Enhanced Immunoassays pushing sensitivity to expand immunoassay applications for basic research, bioprocess and diagnostics.

Enzo is committed to delivering a robust line of products and services that will provide relevant, high-quality solutions that are easily adaptable to the workflow of drug discovery, development and diagnostic customers.

In October 2022, Enzo launched a new series of AMPIVIEW products for gene expression analysis relying on Enzo developed LoopRNATM technology. This suite of products will be sold through our Enzo Life Sciences division with the first products focused on analysis of HPV and SARS-CoV-2. Additional products for visualization of cancer targets were launched in 2023, and plans to further expand the portfolio continue into 2024. These tissue pathology products complement Enzo's current portfolio and expand our technology into the growing spatial biology market space.

Continue to commercialize new platforms via multiple channels and leverage our marketing and distribution infrastructure

Enzo Life Sciences maintains relationships with academic and commercial groups worldwide, sourcing and commercializing high value reagents developed by leading researchers. We have also developed a sales and marketing infrastructure to directly service our end users such as clinical laboratories, researchers and pharmaceutical companies, while simultaneously positioning the Company for targeted product line expansion. Our global sales, marketing, manufacturing, product development and distribution infrastructure is integrated and consolidated as a single global business. Enzo Life Sciences operates, under its own name, worldwide through wholly owned subsidiaries (in USA, Switzerland, Benelux, Germany, and the UK), a branch office in France and a network of third party distributors in most other significant markets worldwide. Our comprehensive product portfolio allows us to deliver integrated solutions to basic researchers, drug developers and clinical researchers around the globe. Our research provides solutions in all key research areas including: Genomics, Cell Biology, Biomarker Detection, and in a multitude of applied research markets including: Bioprocess, Personal Care, Cancer Research, and Neuroscience, to name a few.

Expand and protect our intellectual property estate

Since our inception, we have followed a strategy of creating a broadly encompassing patent position in the life sciences and therapeutics areas. We have made obtaining patent protection a central strategic policy, both with respect to our proprietary platform technologies and products, as well as broadly in the areas of our research activities. During fiscal years 2023 and 2022, we were issued 7 and 15 patents, respectively, expanding our patent estate in the area of nucleotides, amplification, labeling and detection, among others

We consider our intellectual property program to be a key asset and a major strategic component to the execution of our business strategy. A broad portfolio of owned patents and pending patent applications supports our core technology platforms. Our policy is to seek patent protection for our core technology platforms, as well as for ancillary technologies that support these platforms and provide a competitive advantage. In the last fiscal year, we had 7 patents issued and we filed 6 new patent applications.

At the end of fiscal 2023, we owned 457 patents relating to products, methods and procedures resulting from our internal or sponsored research projects. There can be no assurance that patents will be issued on pending applications or that any owned patents will not be challenged (see Item 3, Legal Proceedings), or that they will have commercial benefit. We do not intend to rely on patent protection as the sole basis for protecting our proprietary technology.

We also rely on our trade secrets and continuing technological innovation. We require each of our employees to sign a confidentiality agreement that prohibits the employee from disclosing any confidential information about us, including our technology or trade secrets.

Our intellectual property portfolio can be divided into patents that provide claims in three primary categories, as described below:

Core Technologies for Gene, Protein, Cell and Tissue Analysis

We have developed a portfolio of proprietary technologies with a variety of research, diagnostic and therapeutic applications. Technology platforms and products are developed and offered for use by our customers to label, detect and visualize their target of interest.

Gene analysis technology

All gene-based testing is premised on the knowledge that DNA forms a double helix comprised of two complementary strands that match and bind to each other. If a complementary piece of DNA (a probe) is introduced into a sample containing its matching DNA, it will bind to, or hybridize, to form a double helix with that DNA. Genebased testing is carried out by:

- amplification of the target DNA sequence (a process that is essential for the detection of very small amounts of nucleic acid);
- labeling the probe with a marker that generates a detectable signal upon hybridization;
- addition of the probe to the sample containing the DNA; and
- binding or hybridization of the probe to the target DNA sequence, if present, to generate a detectable signal.

Historically, we swiftly and decisively responded to challenges within the life sciences market. As the market demanded methods to specifically and accurately identify disease targets, Enzo provided tools to meet their needs Whether it was our various gene analysis solutions for HPV detection or broader platforms for the labeling, detection, amplification and analysis of nucleic acids like our AMPIPROBE® platform, Enzo has translated our technological know-how into market relevant tools for solving customers technological challenges.

We have recently expanded in this area with our AMPIVIEW® in situ hybridization technology, thereby opening up opportunities with various drug development segments.

Amplification

In the early stages of infection, a pathogen may be present in very small amounts and consequently may be difficult to detect. Using DNA amplification, samples can be treated to cause a pathogen's DNA to be replicated, or amplified, to detectable levels. We have developed a proprietary amplification process for multicopy production of nucleic acids, as well as proprietary techniques for amplifying the signals of our probes to further improve sensitivity. Our amplification technologies are particularly useful for the early detection of very small amounts of target DNA. We have also developed isothermal amplification procedures that can be performed at constant temperatures; unlike polymerase chain reaction (PCR) the most commonly used method of target nucleic acid amplification. These platform technologies could thus potentially lead to assays with advantages over PCR-based tests which require expensive heating and cooling systems or specialized heat-resistant enzymes. Moreover, our AMPIPROBE® Nucleic Acid Amplification Platform, because of the reduced amount of starting material needed for analysis, may lead to a next-generation of molecular diagnostics that can impart higher sensitivity at a lower cost than currently available assays.

Non-Radioactive Labeling and Detection for gene analysis

Traditionally, nucleic acid probes were labeled with radioactive isotopes. However, radioactively labeled probes have a number of shortcomings; they are unstable and consequently have a limited shelf life and they are potentially hazardous, resulting in restrictive licensing requirements and safety precautions for preparation, use and disposal. Finally, radioactive components are expensive. Our technologies permit gene analysis without the problems associated with radioactively labeled probes and are adaptable to a wide variety of formats.

Formats

There are various processes, or formats, for performing probe-based tests. In certain formats, the probe is introduced to a target sample affixed to a solid matrix; in others, the probe is combined with the sample in solution (homogeneous assay). Solid matrix assays include: *in situ* assays in which the probe reaction takes place directly on a microscope slide; dot blot assays in which the target DNA is fixed to a membrane; and microplate and microarray assays in which the DNA is fixed on a solid surface, and the reaction can be quantified by instrumentation.

Life Sciences

We are a manufacturer of labeling and detection technologies from DNA to whole cell analysis. Enzo's products are backed by innovative technology platforms and a deep patent portfolio. With over 45 years of experience, Enzo continues to provide integrated solutions for drug development, pipeline basic research, drug discovery, quality control in drug development and diagnostics. Enzo Life Sciences offers a broad range of high-quality products to advance research including proteins, antibodies, peptides, small molecules, labeling probes, dyes, and kits. Enzo operates in a highly competitive and price-sensitive marketplace and is repositioning itself by narrowing its product mix to concentrate on improved profitability, while also adding staff who are more experienced in operations. We have become a specialized assay supplier as part of our integrated strategic plan to deliver highly efficient, cost-effective assays for our own use and to sell to independent labs. With direct sales operations in the US, Switzerland, Germany, UK, France, and Benelux, Enzo Life Sciences also supports its products through a global network of dedicated distributors.

With a passion for genomics, Enzo was the first to develop products for non-radioactive labeling of nucleic acids. This technique was instrumental in the development of today's genomic analysis market. Our pioneering research in genetic modification medicine was the first to recognize that nucleic acids could be used as therapeutics. Our innovations in the detection of nucleic acids in solutions and solid matrices led to the development of technology platforms such as hybrid capture, as well as fluorescent and chromogenic *in situ* hybridization. Enzo remains at the forefront of target amplification technologies critical in the detection of infectious agents, cancer markers, and genotyping. Our work in the genomic space has resulted in technologies in gene expression and immune system regulation, which opened the door for the well-known molecular diagnostics assays used today.

The products we produce and supply include small molecules, proteins, antibodies, peptides, probes, immunoassays, biochemical assays and custom services. Our comprehensive portfolio of high quality reagents and kits in key research areas are sold to scientific experts in the following fields:

- Bioprocess
- Cancer
- Cell Death/Autophagy
- Cell cycle
- Drug discovery
- Epigenetics
- FISH
- Genomics
- HPV
- ImmunoHistochemistry
- Viral signaling and detection

- Immunology/Inflammation/Innate Immunity
- Metabolism
- Pathology
- In situ Hybridization
- Microarray Labeling
- Neuroscience
- Oxidative Stress
- Proteostasis
- Signal Transduction
- Stem Cell
- Stress Proteins
- Toxicology

We maintain the technology and products from acquired brands including Alexis, Biomol International, Assay Designs, and Stressgen. Enzo strategically uses these brands to complete our product portfolio, allowing us to offer complete solutions to researchers in all fields. These brands are complementary to our core expertise in genomics and molecular biology. The Company intends to maintain the rights to the acquired brands which have long product histories. The Company believes the emphasis on the Enzo Life Sciences brand will result in stronger and clearer brand awareness and allow the Company to execute the sale of higher value products and promote more products into the drug development, clinical research and diagnostic markets.

Axxora.com - "The Reagents Marketplace", Thousands of Reagents, One Marketplace Axxora.com is a proven distribution platform for original manufacturers of innovative research reagents. An increasing number of researchers use our unique marketplace to connect with over 40 specialty manufacturers and gain access to over 100,000 products.

Research and Development

Our principal research and development efforts are directed toward developing innovative new research platforms, and selective expansion of our research product lines, given our manufacturing and distribution capability. We have developed our core research expertise in the life sciences field due to over 45 years of dedicated focus in this area. We conduct our research and other product development efforts through internal research and collaborative relationships.

In the fiscal years ended July 31, 2023 and 2022, the Company incurred costs of approximately \$3.9 million and \$2.4 million, respectively, for research and development activities.

Internal Research Programs

Our professional staff, including 42 with doctoral degrees, performs our internal research and development activities. Our product development programs incorporate various scientific areas of expertise, including recombinant DNA, monoclonal antibody development, enzymology, microbiology, biochemistry, molecular biology, organic chemistry, immunology, flow cytometry and fermentation. In addition, we continuously review in-licensing opportunities in connection with new technology.

External Research Collaborations

We have and continue to explore collaborative relationships with prominent companies and leading-edge research institutions in order to maximize the application of our technology in areas where we believe such relationship will benefit the development of our technology.

Sales and Marketing

Our sales and marketing strategy is to sell our life sciences products through: (i) direct sales to end-users under the Enzo Life Sciences name, with direct recognition to our acquired brands (ii) direct sales to end users under the Axxora electronic market place name (iii) supply agreements with manufacturers and (iv) distributors in major geographic markets. We operate with an understanding of local markets and a well-functioning distribution network system across the globe. We have a worldwide customer support group operated by scientists to consult with our broad and deep customer base that is situated in dozens of countries around the globe. Scientists around the world who recognize the brands (Alexis, Assay Designs, Biomol, Enzo and Stressgen) now receive products directly from Enzo Life Sciences where we are recognized for innovative high quality products, supported directly by our qualified global technical staff. We sell the same products through our Axxora electronic market place which is also the source for life science research reagents from over 40 specialty manufacturers. Our direct marketing and sales network includes fully-owned subsidiaries (USA, Switzerland, Germany, Benelux, and UK), a branch office in France and a network of third party distributors in most other significant markets worldwide. Our products are cited in over 150,000 scientific publications.

Distribution Arrangements

We distribute our life science products internationally through a network of distributors. Through these arrangements, we are able to leverage the established marketing and distribution infrastructure of these companies in certain market places.

Competition

We compete with other life science and biotechnology companies, as well as pharmaceutical, chemical and other companies. Competition in our industry is intense. Many of these companies are performing research targeting the same technologies, applications and markets. Many of these competitors are significantly larger than we are and have more resources. The primary competitive factors in our industry are the ability to create scientifically advanced technology, offer innovative products at the forefront of technological development to targeted market segments, successfully develop and commercialize products on a timely basis, establish and maintain intellectual property rights and attract and retain a breadth and depth of human resources.

Nucleic Acid Chemistry

We currently have broad patent coverage in the area of nucleic acid chemistry. We have done extensive work on the labeling of nucleic acids for the purpose of generating a signal that dates back over twenty years. Enzo has multiple owned patents covering the modification of nucleic acids at their sugar and phosphate sites. The claims contained in these patents cover products that incorporate a signaling moiety into a nucleic acid attached to a sugar or phosphate for the purpose of nucleic acid detection or quantification, including sequencing and real time nucleic acid amplification. Enzo also has patents directed to proprietary dyes that may be used to label the sugar, base or phosphate positions of nucleic acids.

Signal Delivery

We have a long history of innovation in the area of analyte detection using non-radioactive signaling entities. At the signaling entity itself, there are several Enzo patents that cover the formation of this structure. A patent which was issued in 2006 covers the attachment of signaling molecules through the phosphate moiety of a nucleic acid, which is how the signal-generating enzyme is bound.

Nucleic Acid Analysis Format

We have patents with issued claims covering the use of arrays of single-stranded nucleic acids fixed or immobilized in hybridizable form to a non-porous solid support. These patents cover any product that uses arrays of nucleic acids for molecular analysis. In some instances, we may enter into royalty agreements with collaborating research parties in consideration for the commercial use by us of the developments of their joint research. In other instances the collaborating party might obtain a patent, but we receive the license to use the patented subject matter. In such cases, we will seek to secure exclusive licenses. In other instances, we might have an obligation to pay royalties to or reach a royalty arrangement with a third party in consideration of our use of developments of such third party.

REGULATION AFFECTING OUR BUSINESSES

Adhering to the privacy, security and breach notification requirements under the Health Insurance Portability and Accountability Act ("HIPAA") requires an extensive compliance infrastructure. We are required to maintain numerous policies and procedures in order to comply with these requirements. Furthermore, we need to continuously ensure that there are mechanisms in place to safeguard the privacy of protected health information ("PHI") that is transmitted or maintained in any format (e.g. oral, written, or electronic). Failure to comply with these requirements can result in criminal and civil penalties. In addition, to comply with the HIPAA security regulations in particular, we must ensure the confidentiality, integrity and availability of all electronic PHI ("EPHI") that we create, receive, maintain, or transmit. We have some flexibility to fashion our own security measures to accomplish these goals. The security regulations strongly emphasize that we must periodically conduct an accurate and thorough assessment of the potential risks and vulnerabilities to the confidentiality, integrity and availability of our EPHI and then document our response to the various security regulations on the basis of that assessment.

The privacy, security and breach notification regulations under HIPAA were last modified in 2013 as a result of final regulations published pursuant to the HITECH Act ("Omnibus Rule"). The HITECH Act requires, among other things, that Covered Entity health care providers, which may include laboratories, notify patients of breaches of unsecured PHI, enter into business associate agreements with their business associates that meet certain requirements, and take other steps to comply with the privacy, security, and breach notification requirements of the HITECH Act, which include making necessary revisions to many of their existing privacy policies and procedures. In addition, the HITECH Act makes Business Associates directly liable to the Federal government for compliance with certain aspects of the privacy, security and breach notification regulations. In addition, as implemented in the Omnibus Rule, a downstream subcontractor of a Business Associate that creates, receives, maintains, or transmits PHI on behalf of the Business Associate is also itself considered a Business Associate.

Covered Entities and Business Associates are subject to potentially significant civil and criminal penalties for violating HIPAA. Under the Omnibus Rule, health care providers, such as laboratories, that are subject to HIPAA as a Covered Entity are also vicariously liable for violations of HIPAA based on acts or omissions of their agents, including Business Associates, when the agent is acting within the scope of the agency. Complying with the electronic transaction, privacy, security and breach notification rules requires significant effort and expense for virtually all entities that conduct health care transactions electronically and handle PHI.

In April 2023, the Company experienced a ransomware attack that impacted certain critical information technology systems. In response, we promptly deployed containment measures, including disconnecting our systems from the internet, launching an investigation with assistance from third-party cybersecurity experts, and notifying law enforcement. We adhered to our disaster recovery plan, which enabled us to maintain operations throughout the incident response process. We are in the process of evaluating the full scope of the costs and related impacts of this incident. The Company's facilities remained open, and we continued to provide services to patients and partners. We later became aware that certain data, including names, test information, and Social Security numbers, was accessed, and in some instances, exfiltrated from the Company's information technology systems as part of this incident. The investigation identified unauthorized access to or acquisition of clinical test information of approximately 2,470,000 individuals. The Social Security numbers of approximately 600,000 of these individuals may also have been involved. Additionally, the Company has determined that some employees' information may have been involved. The Company has provided notice to the individuals whose information may have been involved, as well as to regulatory authorities, in accordance with applicable law. There is pending Class Action litigation (see Item 3, Legal Proceedings).

Waste

We are subject to licensing and regulation under federal, state and local laws relating to the handling and disposal of hazardous waste, as well as to the safety and health of laboratory employees. Our manufacturing facility is required to operate in accordance with applicable federal and state laws and regulations relating to disposal of all hazardous waste. We use outside vendors to dispose of such waste. Although we believe that we comply in all respects with such federal, state and local laws, our failure to comply with those laws could subject us to denial of the right to conduct business, fines, criminal penalties and/or other enforcement actions.

Occupational Safety

In addition to its comprehensive regulation of safety in the workplace, the U.S. Federal Occupational Safety and Health Administration ("OSHA") has established extensive requirements relating to workplace safety. We are subject to OSHA's requirement that employers using hazardous chemicals communicate the properties and hazards presented by those chemicals to their employees. We believe that we are in compliance with these OSHA requirements. Our failure to comply with those regulations and requirements could subject us to tort liability, civil fines, criminal penalties and/or other enforcement actions.

Other Regulation

Our business is and will continue to be subject to regulation under various state and federal environmental, safety and health laws, including the Occupational Safety and Health Act, the Resource Conservation and Recovery Act, and the Atomic Energy Act or their state law analogs. These and other laws govern our use, handling and disposal of various biological, chemical and radioactive substances used in our operations and wastes generated by our operations. We are required to possess licenses under, or are otherwise subject to federal and state regulations pertaining to, the handling and disposal of hazardous waste and radioactive materials.

We believe that we are in compliance with applicable environmental, safety and health laws in the United States and internationally and that our continual compliance with these laws will not have a material adverse effect on our business. All of our laboratories are operated in accordance with applicable federal and state laws and regulations relating to hazardous substances and we use qualified third-party vendors to dispose of hazardous wastes. Although we believe that we comply in all respects with such federal, state and local laws, our failure to comply with those laws could subject us to denial of the right to conduct business, civil fines, criminal penalties and/or other enforcement actions. Environmental contamination resulting from spills or disposal of hazardous substances generated by our operations, even if caused by a third-party contractor or occurring at a remote location could result in material liability.

Regulation of Diagnostic Products

In February 2020, the HHS Secretary determined that there was a public health emergency that has a significant potential to affect national security or the health and security of United States citizens living abroad, and that involves the virus that causes COVID-19. On the basis of this determination, the Secretary then declared that circumstances exist justifying the authorization of emergency use of in vitro diagnostics for detection and/or diagnosis of the virus that causes COVID-19.

The diagnostic products that are developed by our collaborators, or by us, are likely to be regulated by the FDA as medical devices. Unless an exemption applies, medical devices must undergo premarket review (and receive "510(k) clearance", *de novo* 510(k) authorization, or pre-market approval ("PMA") from the FDA, as may be applicable) before they can be marketed in the United States. The FDA's premarket review processes may be costly and time consuming, but the process of obtaining PMA approval is typically the most costly, lengthy and uncertain, followed by the *de novo* 510(k) process, and then the 510(k) process. Regardless of the premarket review pathway that applies to a particular product, we cannot be sure that we will successfully complete the FDA premarket review process for any product we propose to market.

The FDA decides the premarket review process that applies to a particular device based upon statutory criteria. These criteria include the level of risk that the agency perceives is associated with the device and a determination whether the product is a type of device that is similar to devices that are already legally marketed. Devices deemed to pose relatively less risk are placed in either class I or II, which requires the manufacturer to submit a premarket notification requesting 510(k) clearance, unless an exemption applies. In a pre-market notification, the applicant must demonstrate that the proposed device is "substantially equivalent" in intended use and in safety and effectiveness to a legally marketed "predicate device" that is a "pre-amendment" class III device (i.e., one that was legally in commercial distribution before May 1976) for which the FDA has not yet called for submission of a PMA application, or a device which has been reclassified from Class III to Class II or I, a device which has been found substantially equivalent through the 510(k) process, or a device that was granted marketing authorization via the *de novo* classification process that is not exempt from premarket notification requirement.

After a device receives 510(k) clearance, any modification that could significantly affect its safety or effectiveness, or that would constitute a major change in its intended use, requires a new 510(k) clearance or could require a *de novo* 510(k) authorization or PMA approval (as applicable). The FDA requires each manufacturer to make the determination regarding whether a modification triggers the requirement for a new submission in the first instance, but the FDA can review any such decision. If the FDA disagrees with a manufacturer's decision not to seek premarket review for the modified device, the agency may retroactively require the manufacturer to do so. The FDA also can require the manufacturer to cease marketing and/or recall the modified device until the premarket review process has been successfully completed.

Devices deemed by the FDA to pose the greatest risk, such as life-sustaining, life-supporting or implantable devices, or deemed not substantially equivalent to a legally marketed class I or class II predicate device, or to a preamendment class III device, for which PMAs have not been called, are placed in class III. Such devices are required to undergo the PMA approval process in which the manufacturer must provide sufficient valid scientific evidence of the safety and effectiveness of the device. A PMA application typically requires the collection of extensive preclinical and clinical trial data and also information about the device and its components regarding, among other things, device design, manufacturing and labeling. After approval of a PMA, a new PMA or PMA supplement is required in the event of a modification to the device, its labeling or its manufacturing process.

Although clinical investigations of many devices are subject to the investigational device exemption ("IDE") requirements, clinical investigations of certain in vitro diagnostic ("IVDs") tests are exempt from the IDE requirement provided the testing is non-invasive, does not require an invasive sampling procedure that presents a significant risk, does not by design or intention introduce energy into the subject, and is not used as a diagnostic procedure without confirmation by another medically established test or procedure.

Notwithstanding the above, certain IVD products can be marketed without going through the premarket review process if they are intended for use in the laboratory research phase of development and not represented as an effective IVD (i.e., labeled for Research Use Only (RUO)) or for use in product testing prior to full commercial marketing (i.e. for Investigational Use Only (IUO)). Because RUO and IUO-labeled products are exempt from most regulatory requirements that would otherwise apply to medical devices, it is important that they are not distributed for clinical diagnostic use. Mere placement of an RUO or IUO label on an IVD product does not render the device exempt from otherwise applicable regulatory requirements; indeed, FDA may determine that the device is intended for use in clinical diagnosis on the basis of other evidence, including how the device is marketed. FDA recommends that manufacturers assess the totality of the circumstances surrounding the distribution of their RUO and IUO labeled products to ensure that they are not engaging in practices that conflict with their labeling. The FDA expressed its intent to exercise heightened enforcement with respect to IUO and RUO devices improperly commercialized without FDA clearance, authorization or approval in a 2013 final guidance document.

We have developed products that we currently distribute in the United States on a RUO basis. There can be no assurance that the FDA would agree that our distribution of these products meets the requirements for RUO distribution. Furthermore, our failure to comply with the regulatory limitations on the sale and distribution of RUO devices could result in enforcement action by the FDA, including the imposition of restrictions on our distribution of these products.

In so far as the products that we manufacture or distribute are subject to regulation as medical devices, a host of additional regulatory requirements may apply beyond premarket review requirements, including establishment registration, device listing, the Quality System Regulation (which requires manufacturers to follow elaborate design, testing, control, documentation and other quality assurance procedures), the Medical Device Reporting regulation (which requires that manufacturers report to the FDA certain types of adverse events involving their products), labeling regulations, and the FDA's general prohibition against promoting products for unapproved or "off label" uses. Class II devices may also be subject to special controls such as performance standards, post market surveillance, patient registries, and FDA guidelines that do not apply to class I devices. Unanticipated changes in existing regulatory requirements or adoption of new requirements could hurt our business, financial condition and results of operations.

We are subject to inspection and market surveillance by the FDA to determine compliance with regulatory requirements. If the FDA finds that we have failed to comply with applicable requirements, the agency can institute a wide variety of enforcement actions, ranging from a public warning letter to more severe sanctions such as fines, injunction, civil penalties, recall or seizure of our products, operating restrictions, partial suspension or total shutdown of production, refusal of our requests for 510(k) clearance or PMA approval of new products, withdrawal of PMA approvals already granted, and criminal prosecution.

The FDA also has the authority to request repair, replacement or refund of the cost of any medical device manufactured or distributed by us. Our failure to comply with applicable requirements could lead to an enforcement action that may have an adverse effect on our financial condition and results of operations.

Unanticipated changes in existing regulatory requirements, our failure to comply with such requirements or adoption of new requirements could have a material adverse effect on us. We have employees to expedite the preparation and filing of documentation necessary for FDA clearances, authorizations, and approvals, as well as patent issuances and licensing agreements. We cannot assure you that future clinical diagnostic products developed by us or our collaborators will not be required to be reviewed by FDA under the more expensive and time consuming pre-market approval process.

The Company also adheres to ISO 9001 and ISO 13485 regulations, a globally recognized Quality Management system. Improved continuous business, service, process and product improvement are the core of ISO regulations.

Manufacturing and Research Facilities

Our product development, manufacture and scientific efforts currently take place primarily at two adjacent facilities in Farmingdale, New York. One facility is utilized entirely by Enzo Life Science as its global headquarters, and also for research and manufacturing with special handling capabilities and clean rooms suitable for our operations. The second facility includes the Enzo Life Sciences call center and warehouse space. Enzo Life Sciences had previously centered its US logistics, reagent and kit manufacturing at a leased facility in Ann Arbor, Michigan, which we exited in September 2021. The European logistics operations is based in Lausen, Switzerland. We also contract with qualified third-party contractors to manufacture our products in cases where we deem it appropriate, for example, when it is not cost-effective to produce a product ourselves or where we seek to leverage the expertise of another manufacturer in a certain area.

Employees

As of July 31, 2023, we employed 179 full-time and 11 part-time employees. Of the full-time employees, 112 were engaged in research, development, manufacturing, and marketing of research products, and 67 in finance, information technology, administrative and executive functions. Our scientific staff, including 42 with post graduate degrees, possesses a wide range of experience and expertise in the areas of recombinant DNA, nucleic acid chemistry, molecular biology and immunology. We believe that we have established good relationships with our employees.

Information Systems

Information systems are used extensively in virtually all aspects of our businesses. Our success depends, in part, on the continued and uninterrupted performance of our information technology systems. Computer systems are vulnerable to damage from a variety of sources, including telecommunications or network failures, malicious human acts and natural disasters.

Moreover, despite network security measures, some of our servers are potentially vulnerable to physical or electronic break-ins, computer viruses and similar disruptive problems. We have invested heavily in the upgrade of our information and telecommunications systems to improve the quality, efficiency and security of our businesses.

Despite the precautionary measures that we have taken to prevent unanticipated problems that could affect our information technology systems, sustained or repeated system failures could adversely affect our reputation and result in a loss of customers and net revenues.

On April 6, 2023, the Company experienced a ransomware attack that impacted certain critical information technology systems. In response, we promptly deployed containment measures, including disconnecting our systems from the internet, launched an investigation with assistance from third-party cybersecurity experts, and notified law enforcement. We adhered to our disaster recovery plan, which enabled us to maintain operations throughout the incident response process. We are in the process of evaluating the full scope of the costs and related impacts of this incident. During the disaster recovery, our ability to perform clinical reference testing was severely curtailed and we were forced to outsource much of the testing to third parties, including Labcorp. This negatively impacted the 2023 period's services revenue of the discontinued operations and costs increased due to a higher volume of outsourcing testing to third parties. The Company has incurred, and may continue to incur, certain expenses related to this attack, including expenses to respond to, remediate and investigate this matter, as well as related litigation and regulatory inquiries (see Item 3, Legal Proceedings).

FORWARD - LOOKING AND CAUTIONARY STATEMENTS

This Annual Report contains "forward-looking statements" as defined in the Private Securities Litigation Reform Act of 1995. All statements other than statements of historical fact, including, without limitation, the statements under "Management's Discussion and Analysis of Financial Condition and Results of Operations" are "forward-looking statements." Forward-looking statements may include the words "believes," "expects," "plans," "intends," "anticipates," "continues" or other similar expressions. These statements are based on the Company's current expectations of future events and are subject to a number of risks and uncertainties that may cause the Company's actual results to differ materially from those described in the forward-looking statements. Should one or more of these risks or uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary materially from those anticipated, estimated or projected. The Company assumes no obligation to revise or update any forward-looking statements for any reason, except as required by law.

The Company files annual, quarterly and current reports, proxy statements and other information with the Securities and Exchange Commission (the "SEC"). These filings are available to the public via the Internet at the SEC's website located at http://www.sec.gov. You may also read and copy any document the Company files with the SEC at the SEC's public reference room located at 100 F Street, N.E., Washington, D.C. 20549. For more information, please call the SEC at 1-800-SEC-0330.

The Company's website is located at www.enzo.com. The Company makes available on its website a link to all filings that it makes with the SEC. You may request a copy of the Company's filings with the SEC (excluding exhibits) at no cost by writing or telephoning us at the following address or telephone number:

Enzo Biochem, Inc. 81 Executive Blvd. Suite 3 Farmingdale, NY 11735 Tel: (631) 755-5500 Attn: Investor Relations

Item 1A. Risk Factors

Our failure to establish and maintain effective internal controls over financial reporting and information technology access could result in material misstatements in our consolidated financial statements, our failure to meet our reporting obligations and cause investors to lose confidence in our reported financial information, which in turn could cause the trading price of our common stock to decline.

Under Section 404 of the Sarbanes-Oxley Act of 2002 and rules promulgated by the SEC, companies are required to conduct a comprehensive evaluation of their internal control over financial reporting. As part of this process, we are required to document and test our internal control over financial reporting; management is required to assess and issue a report concerning our internal control over financial reporting; and our independent registered public accounting firm may be required to attest to the effectiveness of our internal control over financial reporting. Our internal control over financial reporting may not prevent or detect misstatements because of its inherent limitations, including the possibility of human error, the circumvention or overriding of controls, or fraud.

Over time, controls may become inadequate because of changes in conditions or deterioration in the degree of compliance with policies or procedures. Because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be prevented or detected timely. Even effective internal controls over financial reporting can provide only reasonable assurance with respect to the preparation and fair presentation of financial statements.

The existence of a material weakness could result in errors in our financial statements that could result in a restatement of financial statements, which could cause us to fail to meet our reporting obligations, lead to a loss of investor confidence and have a negative impact on the trading price of our common stock.

In connection with our April 30, 2023 unaudited consolidated financial statements, Enzo's management identified a deficiency, which it considers to be a "material weakness," which could reasonably result in a material misstatement in the Company's financial statements. The Company has implemented remediation measures. However, the material weakness cannot be considered remediated until the applicable controls have operated for a sufficient period of time and management has concluded, through testing, that these controls are operating effectively.

Enzo has concluded that there are material weaknesses in its internal control over financial reporting, which, if not remediated, could materially adversely affect its ability to timely and accurately report its results of operations and financial condition. The accuracy of Enzo's financial reporting depends on the effectiveness of its internal controls over financial reporting.

Internal controls over financial reporting can provide only reasonable assurance with respect to the preparation and fair presentation of financial statements and may not prevent or detect misstatements. Failure to maintain effective internal controls over financial reporting, or lapses in disclosure controls and procedures, could undermine the ability to provide accurate disclosure (including with respect to financial information) on a timely basis, which could cause investors to lose confidence in Enzo's disclosures (including with respect to financial information), require significant resources to remediate the lapse or deficiency, and expose it to legal or regulatory proceedings. In connection with our April 30, 2023 unaudited consolidated financial statements, Enzo's management identified a deficiency, which it considers to be a "material weakness," which could reasonably result in a material misstatement in the Company's financial statements. The Company has implemented remediation measures. However, the material weakness cannot be considered remediated until the applicable controls have operated for a sufficient period of time and management has concluded, through testing, that these controls are operating effectively.

Business Risks

Our operating results may vary from period to period.

Our operating results may vary significantly from quarter to quarter and from year to year, depending on a variety of factors including:

- customer demand for our products due to changes in purchasing requirements and research needs;
- the introduction of new products by us or our competitors;
- the timing of our research and development, sales and marketing expenses;
- general worldwide economic conditions affecting funding of research;
- expenses associated with defending our intellectual property portfolio
- foreign currency exchange rate fluctuations;
- changes in tax laws, the results of tax audits or the measurement of tax uncertainties; and
- the success of identifying, acquiring and integrating businesses that complement our product offerings, add new technology or add presence in a market;

Consequently, results for any interim or full year period may not necessarily be indicative of results in subsequent periods.

A significant proportion of our Products revenues are from academic centers, funded by government grants in our major markets globally.

Governments around the world have been reviewing long term public funding of life science research in response to the problems arising from global financial pressures. As a result, the available funds for discretionary purchases from market to market have been capped or reduced based on available National budgets. Reduced grants for researchers could impact our business, in the amount, price and type of products bought and used by customers.

A significant proportion of our Products revenues are from customers in pharmaceutical and biotech companies.

Globally, pharmaceutical companies are challenging internal budgets, and the return of investment from their R&D spend. This could impact our business, in the amount, price and type of products bought and used by customers.

Our future success will depend in part upon our ability to enhance existing products, develop and introduce new products and realize commercial acceptance of those products, in a rapidly changing technological environment.

The market for our products is characterized by rapidly changing technology, evolving industry standards and new product introductions, which may make our existing products obsolete. Our future success will depend in part upon our ability to enhance existing products, develop and introduce new products, and realize commercial acceptance of those products.

The development of new or enhanced products is a complex and uncertain process requiring the accurate anticipation of technological and market trends as well as precise technological execution. In addition, the successful development of new products will depend on the development of new technologies. We will be required to undertake time-consuming and costly development activities and to seek regulatory approval for these new products. We may experience difficulties that could delay or prevent the successful development, introduction and marketing of these new products. Regulatory clearance or approval of any new products may not be granted by the FDA, state-wide agency or foreign regulatory authorities on a timely basis, or at all, and the new products may not be successfully commercialized.

Our inability to carry out certain of our marketing and sales plans may make it difficult for us to grow or maintain our business.

The Products segment continues a marketing program designed to more directly service its end users, while simultaneously promoting the Enzo Life Science brand, with reference to our acquired brands. We will continue to reach out to our customers using our direct field sales force, in-house business team, the on-going enhancement of our interactive websites, continued attendance at top industry trade meetings, and publications to customers and in leading scientific journals. In addition to our direct sales, we operate worldwide through wholly-owned subsidiaries (in USA, Switzerland, Belgium, Germany, and the UK), a branch office in France and a network of third-party distributors in most other significant markets. If we are unable to successfully continue these programs, we may be unable to grow and our business could suffer.

We face significant competition, which could cause us to decrease the prices for our products or render our products uneconomical or obsolete, any of which could reduce our revenues and limit our growth.

Our competitors in the biotechnology industry in the United States and abroad are numerous and include major pharmaceutical, energy, food and chemical companies, as well as specialized genetic engineering firms. Many of our large competitors have substantially greater resources than us and have the capability of developing products which compete directly with our products. Many of these companies are performing research in the same areas as we are. The markets for our products are also subject to competitive risks because markets are highly price competitive. Our competitors have competed in the past by lowering prices on certain products.

These competitive conditions could, among other things:

- · require us to reduce our prices to retain market share;
- require us to increase our marketing efforts which could reduce our profit margins;
- increase our cost of labor to attract qualified personnel;
- render our biotechnology products uneconomical or obsolete or;
- reduce our revenue

Ethical, legal and social concerns surrounding the use of genetic information could reduce demand for our products.

Genetic testing has raised ethical issues regarding privacy and the appropriate uses of the resulting information. For these reasons, governmental authorities may call for limits on or regulation of the use of genetic testing or prohibit testing for genetic predisposition to certain conditions, particularly for those that have no known cure. Similarly, such concerns may lead individuals to refuse to use genetics tests even if permissible. Any of these scenarios could reduce the potential markets for our molecular diagnostic products, which could have a material adverse effect on our business, financial condition and results of operations.

We depend on distributors and contract manufacturers and suppliers for materials that could impair our ability to manufacture or distribute our products.

We manufacture and distribute our own brand products and the products of third party manufacturers and suppliers. Distributors also sell our branded products. To the extent we are unable to maintain or replace a distributor in a reasonable time period, or on commercially reasonable terms, if at all, our operations could be disrupted.

Outside distributors, suppliers and contract manufacturers provide key finished goods, components and raw materials used in the sale and manufacture of our products. Although we believe that alternative sources for components and raw materials are available, any supply interruption in a limited or sole source component or raw material would harm our ability to manufacture our products until a new source of supply is identified and qualified. In addition, an uncorrected defect or supplier's variation in a component or raw material, either unknown to us or incompatible with our manufacturing process, could harm our ability to manufacture products. We might not be able to find a sufficient alternative supplier in a reasonable time period, or on commercially reasonable terms, if at all. If we fail to obtain a supplier for the components of our products, our operations could be disrupted.

We use hazardous materials in our business. Any claims relating to improper handling, storage or disposal of these materials could be costly and time-consuming.

Our manufacturing and research and development processes involve the storage, use and disposal of hazardous substances, including hazardous chemicals, biological hazardous materials and radioactive compounds. We are subject to governmental regulations governing the use, manufacture, storage, handling and disposal of materials and waste products. Although we believe that our safety and environmental management practices and procedures for handling and disposing of these hazardous materials are in accordance with good industry practice and comply with applicable laws, permits, licenses and regulations, the risk of accidental environmental or human contamination or injury from the release or exposure of hazardous materials cannot be completely eliminated. In the event of an accident, we could be held liable for any damages that result, including environmental clean-up or decontamination costs, and any such liability could exceed the limits of, or fall outside the coverage of, our insurance.

We may not be able to maintain insurance on acceptable terms, or at all. We could be required to incur significant costs to comply with current or future environmental and public and workplace safety and health laws and regulations.

We are required to expend significant resources for research and development for our diagnostic products in development and these products may not be developed successfully. Failure to successfully develop these products may prevent us from earning a return on our research and development expenditures.

The diagnostic products we are developing are at various stages of development and clinical evaluations and may require further technical development and investment to determine whether commercial application is practicable. There can be no assurance that our efforts will result in products with valuable commercial applications. Our cash requirements may vary materially from current estimates because of results of our research and development programs, competitive and technological advances and other factors. In any event, we will require substantial funds to conduct development activities, apply for regulatory approvals and commercialize products, if any, that are developed.

We do not have any commitments or arrangements to obtain any additional financing and there is no assurance that required financing will be available to us on acceptable terms, if at all. Even if we spend substantial amounts on research and development, our potential diagnostic products may not be developed successfully.

If our diagnostic product candidates on which we have expended significant amounts for research and development are not commercialized, we will not earn a return on our research and development expenditures, which may harm our business.

Risks relating to our Intellectual Property and Regulatory Approval

Protecting our proprietary rights is difficult and costly. If we fail to adequately protect or enforce our proprietary rights, we could lose potential revenue from licensing and royalties.

Our potential revenue and success depends in large part on our ability to obtain, maintain and enforce our patents. Our ability to commercialize any product successfully will largely depend on our ability to obtain and maintain patents of sufficient scope to prevent third parties from developing similar or competitive products. In the absence of patent protection, competitors may impact our business by developing and marketing substantially equivalent products and technology.

Patent disputes are frequent and can preclude the commercialization of products. We have in the past been, are currently, and may in the future be, involved in material patent litigation, such as the matters discussed under "Part I - Item 3. Legal Proceedings" in this report. Patent protection litigation is time-consuming and we have incurred and anticipate continuing to incur significant legal costs. In addition, an adverse decision could force us to either obtain third-party licenses at a material cost or cease using the technology or product in dispute.

We have filed applications for United States and foreign patents covering certain aspects of our technology, but there is no assurance that pending patents will issue or as to the degree of protection which any owned patent might afford.

Lawsuits, including patent infringements, in the biotechnology industry are not uncommon. If we become involved in any significant litigation, we would suffer as a result of the diversion of our management's attention, the expense of litigation and any judgments against us.

In addition to intellectual property litigation for infringement, other substantial, complex or extended litigation could result in large expenditures by us and distraction of our management. Patent litigation is time-consuming and costly in its own right and could subject us to significant liabilities to third parties. In addition, an adverse decision could force us to either obtain third-party licenses at a material cost or cease using the technology or product in dispute. In addition, lawsuits by employees, stockholders, collaborators or distributors could be very costly and substantially disrupt our business. Disputes from time to time with companies or individuals are not uncommon in the biotechnology industry, and we cannot assure you that we will always be able to resolve them out of court.

We also utilize certain unpatented proprietary technology and no assurance can be given that others will not independently develop substantially equivalent proprietary technology, that such proprietary technology will not be disclosed or that we can meaningfully protect our rights to such proprietary technology.

Our business is subject to governmental laws and regulations. Changes in the way the FDA regulates the reagents, and other consumables we use when developing, validating, and performing our tests could result in delay or additional expense in bringing our tests to market or performing such tests for our customers. We may be unable to obtain or maintain regulatory approvals for our diagnostic products, which could reduce our revenue or prevent us from earning a return on our research and development expenditures.

Our research, preclinical development, product manufacturing and marketing are subject to regulation by the FDA and similar health authorities in foreign countries. The FDA has regulatory responsibility over, among other areas, instruments, software, test kits, reagents and other devices used by clinical laboratories to perform diagnostic testing in the U.S. The tests we develop internally are offered as lab developed tests or LDTs. The FDA has claimed regulatory authority over all LDTs, but has stated that it exercised enforcement discretion with regard to most LDTs performed by high complexity CLIA-certified laboratories. As the FDA moves to regulate more clinical laboratory testing, its approach to regulation is impacting industry practices and participants, new competitors may enter the industry, and competition may come in new forms. In late 2018, legislation was introduced in Congress that would enable the FDA to regulate LDTs, in vitro diagnostics, software and other items used in the diagnosis of disease. If this legislation were to become law, the FDA could regulate diagnostic tests and components and platforms used as part of these tests. If such legislation were to become law, it could have a significant impact on the clinical laboratory testing industry, including regulating LDTs in new ways and creating avenues of opportunity and competition regarding clinical laboratory testing. New competitors may enter the industry, and competition may come in new forms. Pursuant to the 21st Century Cures Act, the FDA issued guidance regarding its position on the regulation of clinical decision software, which may be used in, or in connection with, LDTs. The guidance attempts to clarify whether FDA approval of certain software is required. In January 2019, the FDA issued draft guidance on a pre-certification pilot program to help software developers have a speedier and less restrictive path to clearance or approval of their software.

We cannot be sure that we can obtain necessary regulatory approvals on a timely basis, if at all, for any of the products we are developing or manufacturing or that we can maintain necessary regulatory approvals for our existing products, and all of the following could have a material adverse effect on our business:

- significant delays in obtaining or failing to obtain required approvals;
- loss of, or changes to, previously obtained approvals;
- failure to comply with existing or future regulatory requirements and;
- changes to manufacturing processes, manufacturing process standards or GMP following approval or changing interpretations of these factors.

Adverse perception and increased regulatory scrutiny of gene medicine and genetic research might limit our ability to conduct our business.

Ethical, social and legal concerns about gene medicine, genetic testing and genetic research could result in additional regulations restricting or prohibiting the technologies we or our collaborators may use. Recently, gene medicine studies have come under increasing scrutiny, which has delayed on-going and could delay future clinical trials and regulatory approvals. Federal and state agencies, congressional committees and foreign governments have expressed interest in further regulating biotechnology. More restrictive regulations or claims that our products are unsafe or pose a hazard could prevent us from commercializing any products.

Financial Risks

We have experienced significant losses in our continuing operations in fiscal years ended July 31, 2023 and 2022 and our losses have resulted in the use of cash in operations. If such losses and cash uses continue, the value of your investment could decline significantly.

We incurred net losses before income taxes from continuing operations of \$25.0 million and \$20.3 million, for the fiscal years ended July 31, 2023 and 2022, respectively. If our revenues do not increase, or if our operating expenses exceed expectations or cannot be reduced, we may continue to suffer substantial losses and use cash in operations which could have an adverse effect on our business and adversely affect your investment in our Company. We have an accumulated deficit of \$268.4 million as of July 31, 2023 and net cash used in operating activities was \$37.0 million for the fiscal year 2023. We may continue to generate net losses. We believe our cash and cash equivalents at July 31, 2023 are sufficient for our operations and non-discretionary capital needs for at least twelve months from the filing of this report. Failure to generate additional product revenues at higher margins, obtain additional capital or manage discretionary spending could have an adverse effect on our financial position, results of operations and liquidity.

Other risks relating to our business

Cyber security risks and the failure to maintain the confidentiality, integrity, and availability of our computer hardware, software, and Internet applications and related tools and functions could result in damage to the Company's reputation and/or subject the Company to costs, fines, or lawsuits.

The integrity and protection of our own data, and that of its customers and employees, is critical to the Company's business. The regulatory environment governing information, security and privacy laws is increasingly demanding and continues to evolve. Maintaining compliance with applicable security and privacy regulations may increase the Company's operating costs and/or adversely impact the Company's ability to market its products and services to customers. Although the Company's computer and communications hardware is protected through physical and software safeguards, it is still vulnerable to fire, storm, flood, power loss, earthquakes, telecommunications failures, physical or software break-ins, software viruses, and similar events. These events could lead to the unauthorized access, disclosure and use of non-public information. The techniques used by criminal elements to attack computer systems are sophisticated, change frequently and may originate from less regulated and remote areas of the world. As a result, the Company may not be able to address these techniques proactively or implement adequate preventative measures. If the Company's computer systems are compromised, it could be subject to fines, damages, litigation, and enforcement actions, customers could curtail or cease using its applications, and the Company could lose trade secrets, the occurrence of which could harm its business.

We rely on network and information systems and other technology whose failure or misuse could cause, and has caused, a disruption of services or loss or improper disclosure of personal data, business information, including intellectual property, or other confidential information, resulting in increased costs, loss of revenue or other harm to our business.

Network and information systems and other technologies, including those related to the Company's network management, are important to its business activities. The Company also relies on third party providers for certain technology and "cloud-based" systems and services that support a variety of business operations. Network and information systems-related events affecting the Company's systems, or those of third parties upon which the Company's business relies, such as computer compromises, cyber threats and attacks, ransomware attacks, computer viruses, worms or other destructive or disruptive software, process breakdowns, denial of service attacks, malicious social engineering or other malicious activities, or any combination of the foregoing, as well as power outages, equipment failure, natural disasters (including extreme weather), terrorist activities, war, human or technological error or malfeasance that may affect such systems, could result in disruption of the Company's business and/or loss, corruption or improper disclosure of personal data, business information, including intellectual property, or other confidential information. In addition, any design or manufacturing defects in, or the improper implementation of, hardware or software applications the Company develops or procures from third parties could unexpectedly compromise information security. In recent years, there has been a rise in the number of cyber-attacks and ransomware attacks on companies' network and information systems, and such attacks have become more sophisticated, targeted and difficult to detect and prevent. As a result, the risks associated with such an event continue to increase, particularly as the Company's digital businesses expand. The Company's security measures and internal controls that are designed to protect personal data, business information, including intellectual property, and other confidential information, to prevent data loss, and to prevent or detect security breaches, have not always provided, and cannot provide, absolute security and have at times failed and may not be successful in preventing these events from occurring, particularly given that techniques used to access, disable or degrade service, or sabotage systems change frequently, and any network and information systems-related events have required and could continue to require the Company to expend significant resources to remedy such event. Moreover, the development and maintenance of these measures is costly and requires ongoing monitoring and updating as technologies change and efforts to overcome security measures become more sophisticated. The Company's cyber risk insurance may not be sufficient to cover all losses from any future breaches of our systems.

A significant cyber attack, ransomware attack, failure, compromise, breach or interruption of the Company's systems, or those of third parties upon which its business relies, could result in a disruption of its operations, customer, audience or advertiser dissatisfaction, damage to its reputation or brands, regulatory investigations and enforcement actions, lawsuits, remediation costs, a loss of customers, advertisers or revenues and other financial losses. If any such failure, interruption or similar event results in the improper disclosure of information maintained in the Company's information systems and networks or those of its vendors, including financial, personal, credit card, confidential and proprietary information relating to personnel, customers, vendors and the Company's business, including its intellectual property, the Company could also be subject to liability under relevant contractual obligations and laws and regulations protecting personal data and privacy. In addition, media or other reports of perceived security vulnerabilities to our systems or those of third parties upon which the Company's business relies, even if nothing has actually been attempted or occurred, could also adversely impact our brand and reputation and materially affect our business.

On April 6, 2023, the Company experienced a ransomware attack that impacted certain critical information technology systems. The Company has incurred, and may continue to incur, certain expenses related to this attack and remains subject to risks and uncertainties as a result of the incident. Additionally, security and privacy incidents have led to, and may continue to lead to, additional regulatory scrutiny and class action litigation exposure. This incident severely curtailed our ability to perform clinical reference testing and we were forced to outsource much of the testing to third parties, including Labcorp, which negatively impacted the 2023 period's services revenue and increased costs due to a higher volume of outsourcing testing to third parties in the discontinued operations. See Note 17 *Contingencies* for additional information.

If we fail to attract and retain key personnel, including our senior management, our business could be adversely affected.

Most of our products and services are highly technical in nature. In general, only highly qualified and trained scientists and technician personnel have the necessary skills to develop proprietary technological products and market our products and support our research and development programs.

In addition, some of our manufacturing, quality control, safety and compliance, information technology and e-commerce related positions are highly technical as well. Further, our sales personnel are highly trained and are important to retaining and growing our businesses. Our success depends in large part upon our ability to identify, hire, retain and motivate highly skilled professionals.

We face intense competition for these professionals from our competitors, customers, marketing partners and other companies throughout the industries in which we compete. Since our inception we have successfully recruited and hired qualified key employees. Any failure on our part to hire, train, and retain a sufficient number of qualified professionals would seriously damage our business.

We depend heavily on the services of our senior management. We believe that our future success depends on the continued services of such management. Our business may be harmed by the loss of a significant number of our senior management in a short period of time.

The insurance we purchase to cover our potential business risk may be inadequate.

Although we believe that our present insurance coverage is sufficient to cover our current estimated exposures, we cannot assure that we will not incur losses or liabilities in excess of our policy limits. In addition, although we believe that will be able to continue to obtain adequate coverage, we cannot assure that we will be able to do so at acceptable costs.

We are, and may become subject to, legal proceedings, arbitration proceedings, investigations, and other claims or disputes, which are costly to defend and, if determined adversely to us, could require us to pay fines or damages, undertake remedial measures, or prevent us from taking certain actions, any of which could adversely affect our business.

We are, and in the future may become, a party to legal proceedings, arbitration proceedings, investigations, and other claims or disputes, which have related and may relate to subjects including our recent ransomware attack and data breach, breach of fiduciary duties relating to our commercial transactions, intellectual property, securities, employee relations, or compliance with applicable laws and regulations (see Part I - Item 3, Legal Proceedings).

We face a significant risk due to ongoing litigation that has the potential to result in future financial obligations, adversely impacting the company's business and profitability. The outcome of the present legal proceedings may lead to financial liabilities, such as settlements or damages, posing a material threat to our financial condition and cash flow. Moreover, adverse litigation outcomes may harm our reputation, affecting customer trust and investor confidence, thereby influencing market share and brand value. While we are actively managing and addressing the litigation, uncertainties persist, emphasizing the importance of transparency in communication with stakeholders and the implementation of effective risk mitigation strategies.

Risks relating to our international operations

Foreign currency exchange rate fluctuations may adversely affect our business.

Since we operate as a multinational corporation that sells and sources products in many different countries, changes in exchange rates could in the future, adversely affect our cash flows and results of operations.

Furthermore, reported sales and purchases made in non-U.S. currencies by our international businesses, when translated into U.S. dollars for financial reporting purposes, fluctuate due to exchange rate movement. Due to the number of currencies involved, the variability of currency exposures and the potential volatility of currency exchange rates, we cannot predict the effect of exchange rate fluctuations on future sales and operating results.

We are subject to economic, political and other risks associated with our significant international business, which could adversely affect our financial results.

We operate internationally primarily through wholly-owned subsidiaries located in North America and Europe. Revenues outside the United States were approximately 40% of total revenues in fiscal year 2023. Our sales and earnings could be adversely affected by a variety of factors resulting from our international operations, including

- future fluctuations in foreign currency exchange rates;
- complex regulatory requirements and changes in those requirements;
- trade protection measures and import or export licensing requirements;
- multiple jurisdictions and differing tax laws, as well as changes in those laws;
- restrictions on our ability to repatriate investments and earnings from foreign operations;
- changes in the political or economic conditions in a country or region, including the actual and potential impact Brexit has on our UK operations;
- · changes in shipping costs; and
- difficulties in collecting on accounts receivable.

If any of these risks materialize, we could face substantial increases in costs, the reduction of profit and the inability to do business.

With our commercialization activities outside of the United States, we are subject to the risk of inadvertently conducting activities in a manner that violates the U.S. Foreign Corrupt Practices Act and similar laws. If that occurs, we may be subject to civil or criminal penalties which could have a material adverse effect on our business, financial condition, results of operations and growth prospects.

We are subject to the U.S. Foreign Corrupt Practices Act ("FCPA"), which prohibits corporations and individuals from paying, offering to pay, or authorizing the payment of anything of value to any foreign government official, government staff member, political party, or political candidate in an attempt to obtain or retain business or to otherwise influence a person working in an official capacity. We are also subject to the UK Anti-Bribery Act, which prohibits both domestic and international bribery, as well as bribery across both public and private sectors.

In the course of establishing and expanding our commercial operations and seeking regulatory approvals outside of the United States, we will need to establish and expand business relationships with various third parties and we will interact more frequently with foreign officials, including regulatory authorities. Expanded programs to maintain compliance with such laws will be costly and may not be effective. Any interactions with any such parties or individuals where compensation is provided that are found to be in violation of such laws could result in substantial fines and penalties and could materially harm our business. Furthermore, any finding of a violation under one country's laws may increase the likelihood that we will be prosecuted and be found to have violated another country's laws. If our business practices outside the United States are found to be in violation of the FCPA, UK Anti-Bribery Act or other similar law, we may be subject to significant civil and criminal penalties which could have a material adverse effect on our financial condition and results of operations.

Risks Relating to our Common Stock

Our stock price has been volatile, which could result in substantial losses for investors.

Our common stock is quoted on the New York Stock Exchange, and there has been historical volatility in the market price of our common stock. The trading price of our common stock has been, and is likely to continue to be, subject to significant fluctuations due to a variety of factors, including:

- fluctuations in our quarterly operating and earnings per share results;
- the gain or loss of significant contracts;
- loss of key personnel;
- announcements of technological innovations or new products by us or our competitors;
- delays in the development and introduction of new products;
- legislative or regulatory changes;
- general trends in the industries we operate;
- recommendations and/or changes in estimates by equity and market research analysts;
- biological or medical discoveries;

- disputes and/or developments concerning intellectual property, including patents and litigation matters;
- public concern as to the safety of new technologies;
- sales of common stock of existing holders;
- securities class action or other litigation;
- developments in our relationships with current or future customers and suppliers and;
- general economic conditions, both in the United States and worldwide.

In addition, the stock market in general has experienced extreme price and volume fluctuations that have affected the market price of our common stock, as well as the stock of many companies in our industries. Often, price fluctuations are unrelated to operating performance of the specific companies whose stock is affected.

In the past, following periods of volatility in the market price of a company's stock, securities class action litigation has occurred against the issuing company. If we were subject to this type of litigation in the future, we could incur substantial costs and a diversion of our management's attention and resources, each of which could have a material adverse effect on our revenue and earnings. Any adverse determination in this type of litigation could also subject us to significant liabilities.

Because we have not and may never pay cash dividends on our common stock, an investor in our common stock may only benefit if it appreciates in value.

We currently intend to retain our retained earnings and future earnings, if any, to finance the expansion of our business and may not pay any cash dividends on our common stock in the foreseeable future. As a result, the success of an investment in our common stock may depend entirely upon any future appreciation. There is no guarantee that our common stock will appreciate in value or even maintain the price at which investors purchased their shares.

It may be difficult for a third party to acquire us, which could inhibit stockholders from realizing a premium on their stock price.

Our certificate of incorporation, as amended, and by-laws contain provisions that could have the effect of delaying, deferring or preventing a change in control of us that stockholders may consider favorable or beneficial due to a majority stockholder vote requirement. These provisions could discourage proxy contests and make it more difficult for stockholders to elect directors and take other corporate actions. These provisions could also limit the price that investors might be willing to pay in the future for shares of our common stock. These provisions include advance notice requirements for the submission by stockholders of nominations for election to the board of directors and for proposing matters that can be acted upon by stockholders at a meeting.

Future sales of shares of our common stock or the issuance of securities senior to our common stock could adversely affect the trading price of our common stock and our ability to raise funds in new equity offerings.

We are not restricted from issuing additional common stock, preferred stock or securities convertible into or exchangeable for common stock. Future sales of a substantial number of our shares of common stock or equity-related securities in the public market or privately, or the perception that such sales could occur, could adversely affect prevailing trading prices of our common stock, and could impair our ability to raise capital through future offerings of equity or equity-related securities. No prediction can be made as to the effect, if any, that future sales of shares of common stock or the availability of shares of common stock for future sale will have on the trading price of our common stock.

Item 1B. Unresolved Staff Comments

None

Item 2. Properties

The following are the principal facilities of the Company:

Location	Primary use	Segments	Leased or owned	Square footage
Farmingdale, NY (Note 1)	Formerly Clinical laboratory and research	Formerly Clinical Labs	Leased	43,000
Farmingdale, NY	Manufacturing, research, sales and administrative office	Products	Owned	22,000
Farmingdale, NY (Note 2)	Manufacturing and administrative office	Products	Owned	36,000
Farmingdale, NY (Note 3)	Corporate headquarters and administrative office	Products and Other	Leased	12,000
New York, NY (Note 4)	Administrative office	Other	Leased	11,300
Lausen, Switzerland (Note 5)	Operational headquarters in Europe, including sales and distribution	Products	Leased	9,626

Note 1 On October 9, 2015, this lease was amended and extended through March 31, 2027. We are evaluating our continued use of this facility. The square footage shown is per the lease agreement.

Note 2 On November 27, 2018 we closed on the \$6 million purchase of this facility, which was subleased through June 30, 2020.

Note 3 This lease commenced June 15, 2021 and expires on June 15, 2024.

Note 4 In June 2017, the lease was extended through June 2028. In July 2022, we sublet 7,200 square feet of this space for the remaining term of the lease, expiring June 2028.

Note 5 In June 2019, the lease was amended and extended through July 2020 and automatically renews for one year on each anniversary.

We believe the current facilities are suitable and adequate for the Company's current operating needs for its Products and "Corporate and Other" segments and that the production capacity in various locations is sufficient to manage services and product requirements.

Item 3. <u>Legal Proceedings</u>

Enzo Biochem is currently subject to regulatory inquiry from the New York Attorney General and a joint inquiry from the Connecticut and New Jersey Attorneys General. Both inquiries ask questions about the ransomware incident, as well as the corrective actions taken in response. It is not known at this time whether the Attorneys General will seek penalty against the Company. We are unable to evaluate the likelihood of an outcome, favorable or unfavorable, to the Company or to estimate the amount or range of any potential liability, if any, at this time.

There is also pending Class Action litigation:

In re Enzo Biochem Data Breach Litigation, No. 2:23-cv-04282 (EDNY)

In the Eastern District of New York twenty putative class actions have been consolidated alleging various harms stemming from the April 2023 data incident. Interim lead counsel has been appointed and a consolidated complaint is due to be filed on November 13, 2023. The complaints seek to certify a federal class as well as several state subclasses. Based on the individual complaints that were filed, we expect the consolidated complaint to bring various statutory and common law claims including negligence, negligence per se, breach of fiduciary duty, breach of implied contract, breach of the implied covenant of good faith and fair dealing, violation of the New York's General Business Law § 349, Invasion of Privacy, violations of the Connecticut Unfair Trade Practices Act, violations of the New Jersey Consumer Fraud Act.

Maria Sgambati et al., v. Enzo Biochem, Inc., et al., Index No. 619511/2023 (N.Y. Sup. Ct.)

This is a putative class action pending in state court alleging various harms stemming from the April 2023 data incident. The complaint seeks to certify a class of New York residents. The complaint brings claims of negligence; negligence per se; breach of implied covenant and good faith and fair dealing; breach of duty; breach of implied contract; and violations of New York's Deceptive Acts and Practices § 349. We have filed a motion to stay this action pending the resolution of the Federal Action and the motion remains pending.

Louis v. Enzo Biochem, Inc. et al., Index No. 653281/2023 (N.Y. Sup. Ct.)

This is a putative class action pending in state court alleging various harms stemming from the April 2023 data incident. The complaint seeks to certify a class of New York citizens. The complaint brings claims of for negligence; negligence *per se*; breach of duty, breach of implied contract; breach of implied covenant of good faith and fair dealing; and violations of New York's Deceptive Acts and Practices § 349. We have filed a motion to stay this action pending the resolution of the Federal Action and the motion remains pending.

A provision has been made in the financial statements for a financial contingency for the above matters based on a reasonable estimate; however, the actual exposure may differ.

On or about March 2, 2023, a verified complaint was filed in the Supreme Court of the State of New York, New York County captioned Elazar Rabbani v. Mary Tagliaferri, et al., Index No. 651120/2023. The verified complaint purports to assert causes of action for breach of fiduciary duty and corporate waste under N.Y.B.C.L. § 720, and also seeks an accounting and certain injunctive relief. Plaintiff served a copy of the verified complaint on Enzo's agent for service in New York on or about March 13, 2023. On August 4, 2023, defendants moved to dismiss all of the causes of action asserted in the verified complaint. Plaintiff filed an amended complaint on or about October 4, 2023, adding, among other things, an additional cause of action for violation of N.Y.B.C.L. § 626. On October 23, 2023, Defendants filed a reply in further support of their motion to dismiss. On October 24, 2023, Plaintiff sought leave to file an opposition brief. Defendants filed an opposition to that request on October 26, 2023. On October 31, 2023, in response to a question from the Court's law clerk, Defendants reiterated that they had elected to apply their original motion to dismiss to the amended pleading. That same day, Plaintiff indicated his intent to file an opposition to that motion on or before November 6, 2023. The Company cannot predict the outcome of this matter.

The Company has brought cases in the United States District Court for the District of Delaware ("the Court"), alleging patent infringement against various companies. In 2017, the Court ruled that the asserted claims of the '180 and '405 Patents are invalid for nonenablement in cases involving Abbott, Becton Dickinson, Gen-Probe, Hologic, and Roche. That ruling was affirmed by the United States Court of Appeals for the Federal Circuit ("Federal Circuit") in June 2019. Enzo subsequently filed a petition for certiorari regarding the invalidity ruling for the '180 and '405 Patents in February 2020; the Supreme Court denied Enzo's petition on March 30, 2020.

The Company, along with its subsidiary Enzo Life Sciences, Inc., resolved its claims against Roche regarding the '197 Patent before the Court (civil action No. 12 cv-00106) in July 2022. There is currently one case that was originally brought by the Company that is still pending in the Court. In that case, Enzo alleges patent infringement of the '197 patent against Becton Dickinson Defendants. The claims in that case are stayed.

In separate inter partes review proceedings before the U.S. Patent and Trademark Office (PTO) involving, among others, Becton Dickinson, certain claims of the '197 Patent were found unpatentable as anticipated or obvious and cancelled by the Patent Trial and Appeals Board ("Board"). Enzo appealed that decision to the Federal Circuit. On August 16, 2019, the Federal Circuit affirmed the Board's decision, finding that each of the challenged claims is unpatentable. The Company filed a petition for rehearing and rehearing en banc on October 30, 2019, which the Federal Circuit denied on December 4, 2019. The Company filed a petition for certiorari with the Supreme Court on March 3, 2020, which was denied.

In April 2019, the Company entered into an agreement with Hologic and Grifols, resolving litigation resulting from four cases originally brought by the Company in the Court. As a result, Enzo dismissed (1) a stayed patent litigation regarding the '180 and '197 Patent against Hologic in the Court; (2) the Consolidated Appeals against Gen-Probe and Hologic resulting from two cases filed in the Court, and (3) the Company's appeal in the litigation involving the '581 Patent that involved both Hologic and Grifols. As a result of the agreement with Hologic, Hologic withdrew from Enzo's Federal Circuit appeal of the Board's adverse rulings in the *inter partes* review proceedings regarding the '197 Patent filed by Hologic and joined by Becton Dickinson mentioned above.

On September 2, 2021, the PTO issued a non-final office action in an *ex parte* reexamination concerning the '197 Patent. In the office action, the PTO rejected certain claims of the '197 Patent under 35 U.S.C. §§ 102 and 103, and for nonstatutory double-patenting. Enzo responded to the office action on January 3, 2022, and the proceeding remains pending. Becton Dickinson requested another *ex parte* reexamination concerning the '197 patent on July 26, 2022. On September 16, 2022, the PTO ordered that *ex parte* reexamination as to certain claims of the '197 patent and has not yet issued an office action. Enzo filed a petition to terminate that second reexamination proceeding on November 16, 2022.

On November 27, 2020, the Company brought an action in the United States District Court for the Southern District of New York against Harbert Discovery Fund, LP, Harbert Discovery Co-Investment Fund I, LP, Harbert Fund Advisors, Inc., Harbert Management Corp. and Kenan Lucas (together, "Harbert"). The Company alleged Harbert made false and misleading representations, or omitted to state material facts necessary to make their statements not misleading, in proxy materials they disseminated seeking the election to the Company's Board of Directors at its 2019 Annual Meeting of two candidates they nominated, in violation of Section 14(a) of the 1934 Exchange Act and Rule 14a-9 thereunder. The Company sought damages and injunctive relief. On October 12, 2021, HDF filed five counterclaims against the Company and present and former directors Dr. Elazar Rabbani, Barry W. Weiner, Dr. Bruce A. Hanna, Dov Perlysky, Rebeca Fischer, Dr. Mary Tagliaferri and Dr. Ian B. Walters. HDF claimed the Company made false and misleading representations in proxy materials it disseminated in connection with its 2019 Annual Meeting, in violation of Section 14(a) of the 1934 Exchange Act and Rule 14a-9 thereunder, and that the Company's directors at that time were liable under Section 20(a) of the Exchange Act for the Company's purported misstatements. HDF also claimed that current and former Company directors breached their fiduciary duties by taking four corporate actions: (a) adjourning the 2019 meeting for 25 days; (b) purportedly causing the two Harbert candidates for director, who were elected at the 2019 Meeting, to resign in November 2020; (c) authorizing the November 27, 2020 Lawsuit; and (d) not accepting Dr. Rabbani's resignation as a director in March 2021. On November 10, 2021, the Company and the other counterclaim defendants moved to dismiss HDF's counterclaims. On December 9, 2021, the court granted the motion to dismiss HDF's counterclaims except HDF's Section 14(a) claim against the Company concerning its statement that it intended to "delay" the 2019 Annual Meeting, and HDF's Section 20(a) and breach of fiduciary duty counterclaims against Dr. Elazar Rabbani, Barry W. Weiner, Dr. Bruce Hanna, Dov Perlysky and Rebecca Fischer with respect to that statement. The Court allowed HDF to move for leave to replead with respect to its dismissed counterclaims. On June 7, 2022, the Court "so ordered" a stipulation of dismissal with prejudice of the Company's claims against Harbert Discovery Fund, LP, Harbert Discovery Co-Investment Fund I, LP, Harbert Fund Advisors, Inc., Harbert Management Corp., and Kenan Lucas, and HDF's counterclaims against the Company, Dr. Bruce Hanna, Dov Perlysky, Rebecca Fischer, Dr. Ian B. Walters and Dr. Mary Tagliaferri. The only remaining claims were HDF's counterclaims against Dr. Rabbani and Mr. Weiner. HDF asked the Court to dismiss those claims without prejudice. Dr. Rabbani and Mr. Weiner asked the Court to dismiss those counterclaims with prejudice and to allow them to take discovery from HDF, the Company, and possibly others. On December 1, 2022, the court granted HDF's motion for voluntary dismissal without prejudice, denied Dr. Rabbani and Mr. Weiner's motion to compel discovery, and directed the Clerk of the Court to close this case.

On or about September 26, 2023, James G. Wolf, Individually and as the Trustee of the Wolf Family Charitable Foundation, Barbaranne R. Wolf, Stephen Paul Wolf, and Preston M. Wolf initiated an appraisal action against Enzo Biochem, Inc. in the New York Supreme Court for Suffolk County. Petitioners seek an appraisal of the value of their shares in the Company. The amount of damages sought by the Petitioners is unspecified. The Company will defend itself vigorously in the appraisal action.

In our discontinued Clinical Labs operations, third-party payers, including government programs, may decide to deny payment or recoup payments for testing that they contend was improperly billed or not medically necessary, against their coverage determinations, or for which they believe they have otherwise overpaid (including as a result of their own error), and we may be required to refund payments that we received.

Former executives arbitration

The Company terminated the employment of Elazar Rabbani, Ph.D., the Company's former Chief Executive Officer, effective April 21, 2022. Dr. Rabbani remains a board director of the Company. Dr. Rabbani is a party to an employment agreement with the Company that entitles him to certain termination benefits, including severance pay, acceleration of vesting of share-based compensation, and continuation of benefits. Based on the terms of his employment agreement, the Company estimated and accrued a charge of \$2,600 in fiscal year 2022 which is included in Selling, general and administrative expenses. The charge was partially offset by the reversal of bonus accruals. In May 2022, the Company paid Dr. Rabbani \$2,123 in severance (the payment constituted taxable income but the Company did not withhold taxes from the payment). In July 2022, the Company paid Dr. Rabbani's income and other withholding taxes of \$1,024 related to that payment on Dr. Rabbani's behalf, which was included in "prepaid expense and other current assets" as of July 31, 2022, as the payment is reimbursable from Dr. Rabbani Dr. Rabbani disputed, among other things, the Company's decision to not award him a bonus for fiscal year 2021 and the amount of severance that was owed to him under his employment agreement. On July 8, 2022, the Company filed a demand for arbitration with the American Arbitration Association (the "AAA") seeking, among other things, a declaration that the Company has fully satisfied its contractual obligations to Dr. Rabbani and seeking the tax withholding reimbursement referenced above. On August 4, 2022, Dr. Rabbani filed counterclaims in the arbitration seeking, among other things, a bonus for fiscal year 2021 and additional severance that he asserts is owed to him. At the parties' joint request, the arbitration has been stayed while the parties work towards resolving the matter.

On February 25, 2022, Barry Weiner, the Company's co-founder and President, notified the Company that he was terminating his employment as President of the Company for "Good Reason" as defined in his employment agreement. The Company accepted Mr. Weiner's termination, effective April 19, 2022, but disagreed with Mr. Weiner's assertion regarding "Good Reason." On October 24, 2023, the Company and Mr. Weiner reached an agreement resolving the dispute.

A provision has been made in the financial statements for these matters based on a reasonable estimate; however, the actual exposure may differ.

Item 4. Mine Safety Disclosures

Not applicable.

Part II

Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

The common stock of the Company is traded on the New York Stock Exchange (Symbol: ENZ).

As of October 27, 2023, the Company had approximately 720 stockholders of record of its common stock.

The Company has not paid a cash dividend on its common stock and intends to continue a policy of retaining earnings to finance and build its operations. Accordingly, the Company does not anticipate the payment of cash dividends to holders of common stock in the foreseeable future.

Item 6. [Reserved]

Not applicable, reserved.

Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

See in this Form 10-K for the fiscal year ended July 31, 2023 Part 1. Item 1. Business, for Forward Looking Cautionary Statements.

The Company's Enzo Life Sciences Products reporting unit, as described below, is a global company affected by different US and global economic conditions which are included in Item 1A, Risk Factors. Our company evolved out of our core competence: the use of nucleic acids as informational molecules and the use of compounds for immune modulation. Costs excluded from this reporting unit and reported as "Corporate and Other" consist of corporate general and administrative costs which are not allocable to the reportable segment. Below is a brief description of this operating segment (see Note 18 in the Notes to Consolidated Financial Statements).

Enzo Life Sciences Products manufactures, develops and markets products and tools to life sciences, drug development and clinical research customers world-wide and has amassed a large patent and technology portfolio. Enzo Life Sciences, Inc. is a recognized leader in labeling and detection technologies across research and diagnostic markets. Our strong portfolio of proteins, antibodies, peptides, small molecules, labeling probes, dyes and kits provides life science researchers tools for target identification/validation, high content analysis, gene expression analysis, nucleic acid detection, protein biochemistry and detection, and cellular analysis. We are globally recognized and acknowledged as a leader in manufacturing, in-licensing, and commercialization of over 20,000 products. Our strategic focus is directed to innovative high quality research reagents and kits in the primary key research areas of genomics, immunohistochemistry, immunoassays, cellular analysis, and small molecule chemistry. The segment is an established source for a comprehensive panel of products to scientific experts in the fields of cancer, cardiovascular disease, neurological disorders, diabetes and obesity, endocrine disorders, infectious and autoimmune disease, hepatotoxicity and renal injury. During the fiscal years ended July 31, 2023 and 2022, the Products segment generated revenues of \$31.1 million and \$32.6 million, respectively

Discontinued operations - Labcorp Asset Purchase Agreement

Effective July 24, 2023, we completed the sale of certain assets used in the operation of Enzo Clinical Labs and the assignment of certain clinical lab liabilities for an aggregate purchase price of \$113.25 million in cash, subject to customary closing adjustments. In accordance with the sale, we ceased our clinical services operations. As a consequence of the sale, for fiscal years 2023 and 2022 we have classified as discontinued operations all income and expenses attributable to the clinical services business, the gain from the sale of the clinical services assets, and the income tax expense attributed to the sale of the clinical services assets. Excluded from the sale of the clinical services assets were its cash and accounts receivable.

Discontinued Operations Carve Out and Expense Allocations

For fiscal years ended July 31, 2023 and 2022, results from operations for our clinical services business are classified as discontinued operations. The carve out of the discontinued operations were prepared in accordance with the SEC's carve out rules under ASC 205-20 Discontinued Operations and are derived from identifying and carving out the specific assets, liabilities, operating expenses and interest expense associated with the clinical services business's operations. Certain administrative and overhead expenses, including personnel expenses, which were incurred by us (for which the discontinued operation benefited from such resources) are allocated out of the discontinued operations based upon the identification of those allocated expenses and to the continuing operations.

For fiscal years ended July 31, 2023 and 2022, we allocated \$2.1 million and \$1.2 million, respectively, of selling, general and administrative expenses from the discontinued operations to the continuing operations in the accompanying results of operations tables and explanations.

Ransomware Attack

In April 2023, the Company experienced a ransomware attack that impacted certain critical information technology systems. In response, we promptly deployed containment measures, including disconnecting our systems from the internet, launching an investigation with assistance from third-party cybersecurity experts, and notifying law enforcement. We adhered to our disaster recovery plan, which enabled us to maintain operations throughout the incident response process. The Company's facilities remained open, and we continued to provide services to patients and partners. We later became aware that certain data, including names, test information, and Social Security numbers, was accessed, and in some instances, exfiltrated from the Company's information technology systems as part of this incident. The investigation identified unauthorized access to or acquisition of clinical test information of approximately 2,470,000 individuals. The Social Security numbers of approximately 600,000 of these individuals may also have been involved. Additionally, the Company has determined that some employees' information may have been involved. The Company has provided notice to the individuals whose information may have been involved, as well as to regulatory authorities, in accordance with applicable law. The Company has incurred, and may continue to incur, related expenses. The Company's cybersecurity insurance carrier has indicated that it will cover up to \$3 million of the remediation costs related to this incident and pay all service providers directly from the policy. As of July 31, 2023, the insurance carrier has assumed approximately \$2.3 million of the remediation costs.

The Company remains subject to risks and uncertainties as a result of the incident, including as a result of the data that was accessed or exfiltrated from the Company's network as noted above. Additionally, security and privacy incidents have led to, and may continue to lead to, additional regulatory scrutiny and class action litigation exposure. We are in the process of evaluating the full scope of the costs and related impacts of this incident. See Note 17 of the consolidated financial statements for litigation in connection with this incident.

Sale of 10% Convertible Debentures and Warrants

The Company entered into a Securities Purchase Agreement on May 19, 2023 for 10% Original Issue Discount Secured Convertible Debentures with an aggregate principal amount of \$7,608,696 with a conversion price of \$3.01 per share and (ii) warrants to purchase up to 1,000,000 shares of the Company's common stock, par value \$0.01 per share for an exercise price of \$2.31 per share, for a total purchase price of \$7,000,000. The Purchase Agreement contains customary representations, warranties and covenants. We prepaid \$4,000,000 of principal prior to July 31, 2023. See Note 9 for additional information.

Results of Operations from Continuing Operations Fiscal year ended July 31, 2023 compared to July 31, 2022 (in \$000s)

Comparative Financial Data from Continuing Operations for the Fiscal Years Ended July 31,

	2023 2022		2022	Favorable (Unfavorable)		% Change	
Revenues	\$	31,061	\$	32,643	\$	(1,582)	(5)
Operating costs and expenses:							
Cost of revenues		17,866		19,213		1,347	7
Cost of revenues – inventory provision		1,629				(1,629)	**
Research and development		3,904		2,438		(1,466)	(60)
Selling, general and administrative		27,202		23,084		(4,118)	(18)
Legal and related expenses		5,196		5,435		239	4
Legal settlement		_		(500)		(500)	**
Total operating costs and expenses		55,797		49,670		(6,127)	(12)
Operating loss		(24,736)		(17,027)		(7,709)	(45)
•							, i
Other income (expense):							
Interest		(1,122)		178		(1,300)	**
Fair value adjustment		(824)		_		(824)	**
Other		380		(1,268)		1,648	**
Foreign exchange gain (loss)		1,280		(2,222)		3,502	**
Loss before income taxes	\$	(25,022)	\$	(20,339)	\$	(4,683)	(23)

** not meaningful

Consolidated Results:

The "2023 period" and the "2022 period" refer to the fiscal year ended July 31, 2023 and July 31, 2022, respectively.

Product revenues were \$31.1 million in the 2023 period and \$32.6 million in the 2022 period, a decrease of approximately \$1.6 million or 5%. The 2022 period includes a \$2.8 million bulk sale of a GMP reagent to a large industrial customer in the US. Excluding the bulk sale, in the 2023 period there was an approximate \$1.6 million increase in revenues in the US market, partially offset by a \$0.4 million decrease in revenues in the European and Asia Pacific markets.

The cost of Product revenues was \$17.9 million in the 2023 period and \$19.2 million in the 2022 period, a decrease of \$1.3 million or 7%. The gross profit margin on Products was approximately 42% in the 2023 period and 41% in the 2022 period. During the 2022 period we made a large bulk sale of a GMP reagent which had a significantly positive impact on that period's profit margin. Without the bulk sale, the gross margin would have been 38.1% in the 2022 period. The 2023 period gross profit was positively impacted by a more profitable mix of products sold.

The cost of Product revenues – inventory provision was \$1.6 million for finished goods of high throughput machines we intended to sell to laboratory customers which we fully reserved in the 2023 period. This expense represents 5.2% of the period's products revenues.

Research and development expenses were \$3.9 million in the 2023 period and \$2.4 million in the 2022 period, an increase of \$1.5 million or 60%, due to increased investment in R&D resources and materials consumed and patent related costs in the Products segment.

Selling, general and administrative expenses were \$27.2 million during the 2023 period versus \$23.1 million during the 2022 period, an increase of \$4.1 million or 18%. The Corporate and Other segment expense increased \$4.3 million during the 2023 period due to professional fees related to strategic initiatives, severance provisions related to former officers, and greater share based compensation expense. The Products segment expense in the 2023 period decreased \$0.2 million compared to 2022.

Legal and related expenses were \$5.2 million during the 2023 period and \$5.4 million in the 2022 period. During the 2023 period, we required significant legal expertise and assistance associated with our strategic initiatives, the Credit Facility, the ransomware attack, the convertible debentures, and matters related to two former senior executives' arbitration, which are ongoing. The 2023 period expense is net of a reimbursement of \$0.8 million under the Company's directors and officers insurance policy. During the 2022 period, we incurred legal expenses associated with strategic initiatives, and corporate employment matters related to two former executives' arbitration, which are ongoing.

Legal settlement income was \$0.5 million in the 2022 period. The Company as plaintiff finalized and executed a settlement agreement with Roche.

Interest (expense) income, net was (\$1.1) million in the 2023 period and \$0.2 million in the 2022 period, an unfavorable variance of \$1.3 million. The 2023 period's interest expense, including set up fees and penalties, was incurred on the 10% convertible debentures issued in May 2023, and on the Credit Facility and the mortgage, both of which were paid off at the APA closing. Some interest income was earned on available cash in a money market fund and will continue to be earned on the net proceeds from the APA, which are on deposit in a money market fund. In the 2022 period, we earned interest on marketable securities in bond funds and incurred interest expense primarily on the mortgage.

We recorded a fair value adjustment charge of approximately \$0.8 million for the 10% convertible debentures based on their fair value as of July 31, 2023.

Other income (expense) in the 2023 period was \$0.4 million versus (\$1.2) million in the 2022 period, a favorable variance of approximately \$1.6 million. During the 2023 period we sublet a portion of our office space. During the 2022 period, the primary component of the expense was realized losses on marketable securities in bond funds liquidated in full by the end of that period.

The foreign exchange gain (loss) recognized by the Products segment during the 2023 period was \$1.3 million compared to (\$2.2) million in the 2022 period, a favorable variance of \$3.5 million. The 2023 period revaluation gain was due to the significant appreciation of the British pound and Swiss franc versus the U.S. dollar as of the end of the 2023 period compared to its start. The revaluation loss in the 2022 period was due to the depreciation of the British pound and Swiss franc versus the U.S. dollar as of the end of that period compared to its start as a result of actions by the US Federal Reserve to begin raising interest rates.

Liquidity and Capital Resources

Our aggregate cash and cash equivalents and restricted cash as of July 31, 2023 and 2022 was \$83.4 million and \$22.6 million, respectively. Our working capital was \$58.5 million and \$29.8 million as of July 31, 2023 and 2022, respectively. The increase of \$60.8 million in our cash and cash equivalents and restricted cash balance for the year ended July 31, 2023 was principally due to the completed sale of certain assets used in the operation of Enzo Clinical Labs to Labcorp in July 2023, partially offset by cash used in operations and the repayment of debt.

Net cash used in operating activities during the 2023 period was \$37.0 million, compared to \$16.6 million during the 2022 period, an unfavorable variance of \$20.4 million. The net cash used in the 2023 period was due to the year over year increase in net income of \$38.5 million offset by the gain on the Labcorp APA of \$82.6 million, a decrease in non-cash expense adjustments of \$1.7 million, and a cash positive net change in operating assets and operating liabilities year over year amounting to \$25.4 million.

Net cash provided by investing activities during the 2023 period was approximately \$99.0 million as compared to \$25.2 million in the 2022 period. In the 2023 period, we received net cash proceeds of \$101.7 million from the Labcorp APA. In the 2022 period, we sold our investments in bond funds for proceeds of \$28.7 million. Capital expenditures in the 2023 and 2022 periods amounted to \$2.8 million and \$3.5 million, respectively.

Cash used in financing activities in the 2023 period amounted to \$1.1 million, net. In the 2023 period, we borrowed and repaid \$16.8 million under the Revolving Credit facility, issued 10% convertible debentures due in May 2024 and warrants for \$7.0 million in cash and repaid \$4.0 million of that, and made principal payments and repaid the full balance of a mortgage totaling \$4.1 million. See below for further details regarding the revolving loan, mortgage and convertible debentures. We issued common stock through the ATM Sales Agreement resulting in proceeds of approximately \$0.4 million. In the 2022 period we used approximated \$0.2 million for payments related to a mortgage and finance leases.

In March 2023, the Company entered into a Revolving Loan and Security Agreement with Gemino Healthcare Finance, LLC d/b/a SLR Healthcare ABL as lender specializing in direct lending to middle-market companies in the healthcare sector. The credit facility provided for a maximum \$8 million revolving line of credit based on the Company's eligible accounts receivable. The annual interest rate was equal to the 90 day term SOFR rate plus 5.5%. The line of credit would terminate one year from closing and unused line fees and early prepayment penalties would apply. We repaid this loan in July 2023 using proceeds from the Labcorp transaction and paid a \$240 prepayment penalty.

In connection with the purchase of a building in Farmingdale, NY in November 2018, a wholly-owned subsidiary (the "mortgagor subsidiary") of the Company entered into a Fee Mortgage and Security Agreement (the "mortgage agreement") with Citibank, N.A. (the "mortgagee"). The mortgage agreement provided for a loan of \$4,500 for a term of 10 years, bore a fixed interest rate of 5.09% per annum and required monthly mortgage payments of principal and interest of \$30. The Company's obligations under the mortgage agreement were secured by the building and by a \$1,000 cash collateral deposit with the mortgage as additional security. In July 2023, we repaid in full the mortgage balance of \$3,834 without prepayment penalty. The cash collateral deposit was released in August 2023 and the \$1,000 collateral deposit is included in prepaid and other assets as of July 31, 2023. At July 31, 2022, the balance owed by the subsidiary under the mortgage agreement was \$3,980. The restricted cash of \$1,000 was included in other assets as of July 31, 2022.

On May 19, 2023, the Company entered into a Securities Purchase Agreement (the "Purchase Agreement") with each of the purchasers that are parties thereto (each, including its successors and assigns, a "Purchaser" and collectively, the "Purchasers") and JGB Collateral, LLC, a Delaware limited liability company, as collateral agent for the Purchasers (the "Agent"). Pursuant to the Purchase Agreement, the Company agreed to sell to the Purchasers (i) 10% Original Issue Discount Secured Convertible Debentures (the "Debentures") with an aggregate principal amount of \$7,608 and (ii) warrants to purchase up to 1,000,000 shares of the Company's common stock, par value \$0.01 per share (the "Common Stock"), for an exercise price of \$2.31 per share, the average of the three (3) daily volume weighted average prices of the Common Stock as defined in the Purchase Agreement ("VWAP") prior to the closing date (the "Warrants"), subject to adjustments as set forth in the Warrants, for a total purchase price of \$7,000. The Purchase Agreement contains customary representations, warranties and covenants. The transactions contemplated by the Purchase Agreement were consummated on May 19, 2023. Pursuant to ASC 825, Fair Value Options, the Company made an irrevocable election at the time of issuance to report the Debentures at fair value with changes in fair value recorded through the Company's consolidated statements of operations as other income (expense) in each reporting period. The Debentures bear interest at a rate of 10% per annum (which interest rate is increased to 18% per annum five days after the occurrence and continuance of an Event of Default (as defined in the Debentures)), have a maturity date of May 20, 2024 and are convertible, at any time after their issuance date at the option of the Purchasers, into shares of Common Stock at a conversion price equal to \$3.01 per share (the "Conversion Price"), subject to adjustment as set forth in the Debentures. Following the consummation of the Company's sale of certain assets and assignment of certain liabilities of Enzo Clinical Labs, Inc., to Labcorp pursuant to the Asset Purchase Agreement, dated March 16, 2023 (the "Asset Sale"), the Company shall either, at the option of the Company upon written notice delivered to the Purchasers within three (3) trading days after the consummation of the Asset Sale, (i) prepay \$4,000 of the outstanding principal amount of the Debentures (to be applied pro rata among the outstanding Debentures based on the relative outstanding principal balance of each Debenture) or (ii) deposit \$4,000 in cash, as collateral for the Company's obligations, into a deposit account subject to a deposit account control agreement, among the Company, the depository bank and the Agent and otherwise acceptable to Agent (in its sole absolute discretion) in form and substance. The Company prepaid \$4,000 of the outstanding principal amount prior to July 31, 2023.

Labcorp Asset Purchase Agreement

We have indemnification obligations to Labcorp Corporation of America Holdings ("Labcorp") under the Asset Purchase Agreement that may require us to make future payments to Labcorp and other related persons for any damages incurred by Labcorp or such related persons as a result of any breaches of our representations, warranties, covenants or agreements contained in the Asset Purchase Agreement, or arising from the Retained Liabilities (as such term is defined in the Asset Purchase Agreement) or certain third-party claims specified in the Asset Purchase Agreement. Generally, our representations and warranties survive for a period of 15 months from the closing date, which was July 24, 2023, other than certain fundamental representations which survive until the expiration of the applicable statute of limitations. There is a limited indemnification cap with respect to a majority of the Company's indemnification obligations under the Asset Purchase Agreement with the exception of claims for actual fraud, the breach of any fundamental representations and certain other items, which have a larger indemnification cap (e.g., the purchase price). Pursuant to the terms of the Asset Purchase Agreement, we, Labcorp, and an escrow agent entered into an Escrow Agreement at closing, pursuant to which Labcorp deposited \$5 million of the aggregate purchase price of the clinical service business into an escrow account established with the Escrow Agent in order to satisfy, in whole or in part, certain of our indemnity obligations under the Asset Purchase Agreement. If, on the 15th month anniversary of the closing date, there are funds remaining in the escrow account, the Escrow Agent will release any funds remaining in the escrow account to us minus any amounts being reserved for escrow claims asserted by Labcorp prior to such date. Upon the resolution of any pending escrow claims, the Escrow Agent will, within two business days of receipt of joint instructions or a final order from a court (as described in the Escrow Agreement) di

General

The Company is a defendant in a number of legal matters, including class action lawsuits related to the ransomware attack of its information technology systems in April 2023. We face a significant risk due to ongoing litigation that has the potential to result in future financial obligations, adversely impacting the company's business and profitability.

Management is not aware of any other trends, events or uncertainties that have or are reasonably likely to have a material negative impact upon our(i) short-term or long-term liquidity, or (ii) net sales or income from continuing operations. Our business is subject to seasonal variations thereby impacting our liquidity and working capital during the course of our fiscal year. To the extent that we do not generate sufficient cash from operations, our cash balances will decline. We may also use our cash to explore and/or acquire new product technologies, applications, product line extensions, or other new business opportunities. In the event that our available cash is insufficient to support such initiatives, we may need to incur indebtedness or issue Common Stock to finance plans for growth. Volatility in the credit markets and the liquidity of major financial institutions may have an adverse effect on our ability to fund our business strategy through borrowings, under either existing or newly created instruments in the public or private markets on terms that we believe to be reasonable, if at all.

Effect of New Accounting Pronouncements

Recently Adopted Accounting Pronouncements

In August 2020, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") No. 2020-06 Accounting for Convertible Instruments and Contracts in an Entity's Own Equity (Subtopic 470-20). The amendments in the ASU simplify the settlement assessment by removing requirements to (1) to consider whether the contract would be settled in registered shares, (2) to consider whether collateral is required to be posted, and (3) to assess shareholder rights. The amendments require instruments that are required to be classified as an asset or liability to measured subsequently at fair value, with changed reported in earnings and disclosed in the financial statements. The amendments improve the consistency of EPS calculations by amending the guidance to align the diluted EPS calculation for convertible instruments by requiring that an entity use the if-converted method rather than the treasury stock method. The amendments also require that the effect of potential share settlement be included in the diluted EPS calculation when an instrument may be settled in cash or shares. Until the issuance of the Debentures, the Company had no instruments affected by ASU 2020-06. We adopted the amendments in this ASU effective with the issuance of the Debentures in the fiscal quarter ended July 31, 2023, which did not have a material impact on our financial position or results of operations.

Pronouncements Issued but Not Yet Adopted

In June 2016, FASB issued ASU No. 2016-13 Financial Instruments – Credit Losses (Topic 326). This standard changes the impairment model for most financial instruments, including trade receivables, from an incurred loss method to a new forward-looking approach, based on expected losses. The estimate of expected credit losses will require entities to incorporate considerations of historical information, current information and reasonable and supportable forecasts. Adoption of this standard is required for our annual and interim periods beginning August 1, 2023 and must be adopted using a modified retrospective transition approach. We do not expect the impact of the adoption of this standard on our results of operations, financial position and cash flows to be material.

We reviewed all other recently issued accounting pronouncements and have concluded they are not applicable or not expected to be significant to the accounting for our operations.

Critical Accounting Policies and Estimates

General

The Company's discussion and analysis of its financial condition and results of operations are based upon Enzo Biochem, Inc.'s consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States. The preparation of these financial statements requires the Company to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses. These estimates and judgments also affect related disclosure of contingent assets and liabilities.

On an on-going basis, we evaluate our estimates, including those related to contractual expense, allowance for uncollectible accounts, inventory, and income taxes. The Company bases its estimates on experience and on various other assumptions that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

Contingencies

Contingencies are evaluated and a liability is recorded when the matter is both probable and reasonably estimable. Gain contingencies are evaluated and not recognized until the gain is realizable or realized.

Product revenues

Products revenues consist of the sale of single-use products used in the identification of genomic information and are recognized at a point in time following the transfer of control of such products to the customer, which generally occurs upon shipment. Payment terms for shipments to end-user and distributor customers may range from 30 to 90 days. Any claims for credit or return of goods may be made generally within 30 days of receipt. Revenues are reduced to reflect estimated credits and returns, although historically these adjustments have not been material. Taxes collected from customers relating to product sales and remitted to governmental authorities are excluded from revenue. Amounts billed to customers for shipping and handling are included in revenue, while the related shipping and handling costs are reflected in cost of products.

Accounts Receivable

Accounts receivable are reported at realizable value, net of allowances for doubtful accounts, which is estimated and recorded in the period of the related revenue.

As of July 31, 2023 and 2022, Products accounts receivable, net were \$4,808 and \$4,762, respectively. As of July 31, 2023 and 2022, these totals include foreign receivables, net of \$1,277 and \$1,142, respectively. As of July 31, 2021, Products accounts receivable, net were \$4,182, and include foreign receivables, net of approximately \$1,400.

Income Taxes

The Company accounts for income taxes under the liability method of accounting for income taxes. Under the liability method, deferred tax assets and liabilities are recognized for the future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases. The liability method requires that any tax benefits recognized for net operating loss carry forwards and other items be reduced by a valuation allowance where it is not more likely than not the benefits will be realized in the foreseeable future. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. Under the liability method, the effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date. It is the Company's policy to provide for uncertain tax positions, if any, and the related interest and penalties based upon management's assessment of whether a tax benefit is more likely than not to be sustained upon examination by tax authorities. To the extent the Company prevails in matters for which a liability for an unrecognized tax benefit is established or is required to pay amounts in excess of the liability, the Company's effective tax rate in a given financial statement period may be affected.

Inventory

The Company values inventory at the lower of cost (first-in, first-out) or net realizable value. Work-in-process and finished goods inventories consist of material, labor, and manufacturing overhead. Write downs of inventories to net realizable value are based on a review of inventory quantities on hand and estimated sales forecasts based on sales history and anticipated future demand. Unanticipated changes in demand could have a significant impact on the value of our inventory and require additional write downs of inventory which would impact our results of operations.

Long-Lived Assets

The Company reviews the recoverability of the carrying value of long-lived depreciable assets of an asset or asset group for impairment if indicators of potential impairment exist. Should indicators of impairment exist, the carrying values of the depreciable assets are evaluated in relation to the operating performance and future undiscounted cash flows of an asset or asset group. The net book value of the depreciable long lived asset is adjusted to fair value if its expected future undiscounted cash flow is less than its book value

During fiscal years 2023 and 2022 there was no impairment of depreciable long-lived assets used in continuing operations. During the fiscal year ended July 31, 2022, all intangible assets, which were finite lived, became fully amortized.

Item 7A.

Not applicable.

Item 8. Financial Statements and Supplementary Data

The response to this item is submitted in a separate section of this report. See Item 15(a) (1) and (2).

Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None.

Item 9A. Controls and Procedures

1. Disclosure Controls and Procedures

We maintain disclosure controls and procedures (Disclosure Controls) within the meaning of Rules 13a-15(e) and 15d-15(e) of the Securities Exchange Act of 1934, as amended, or the Exchange Act. Our Disclosure Controls are designed to ensure that information required to be disclosed by us in the reports we file or submit under the Exchange Act, such as this Annual Report on Form 10-K, is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms. Our Disclosure Controls are also designed to ensure that such information is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate, to allow timely decisions regarding required disclosure. In designing and evaluating our Disclosure Controls, management recognized that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives, and management necessarily applied its judgment in evaluating and implementing possible controls and procedures.

As of the end of the period covered by this Annual Report on Form 10-K, we evaluated the effectiveness of the design and operation of our Disclosure Controls, which was done under the supervision and with the participation of our management, including our principal executive officer and principal financial officer. Based on the evaluation of our Disclosure Controls, as a result of the material weakness identified below, our principal executive officer and principal financial officer have concluded that, as of July 31, 2023, our Disclosure Controls were not effective to ensure that information required to be disclosed by us in the reports we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms and is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate to allow timely decisions regarding required disclosure.

2. Change in Internal Control over Financial Reporting

There were no changes in our internal control over financial reporting that occurred during the year ended July 31, 2023, other than the discussion below, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

3. Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting. Internal control over financial reporting is defined in Rules 13a-15(f) and 15d-15(f) promulgated under the Exchange Act as a process designed by, or under the supervision of, a company's principal executive and principal financial officers and effected by the company's board of directors, management and other personnel, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with U.S. generally accepted accounting principles. Our internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of our assets; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that our receipts and expenditures are being made only in accordance with authorizations of our management and directors; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of our assets that could have a material effect of our consolidated financial statements.

There are inherent limitations on the effectiveness of any system of internal controls and procedures, including the possibility of human error and the circumvention or overriding of the controls and procedures. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies and procedures may deteriorate. Accordingly, even effective internal controls and procedures can only provide reasonable assurance of achieving their control objectives.

As previously disclosed on Form 8-K's dated April 13, 2023, and May 30, 2023, the Company experienced a ransomware attack that impacted certain critical information technology systems. In response, the Company promptly deployed containment measures, including disconnecting its systems from the internet, launching an investigation with assistance from third-party cybersecurity experts, and notifying law enforcement. The Company adhered to its disaster recovery plan, which enabled it to substantially maintain operations throughout the incident response process.

As a result of the ransomware attack and the subsequent investigation, the Company determined a material weakness existed that impaired the Company's ability to assure that standard systems and accounting processes could operate effectively. As a result, a reasonable possibility exists that a material misstatement of the Company's annual or interim financial statements would not be prevented or detected and corrected in a timely manner. The following is a description of the material weakness identified:

Control Environment, Risk Assessment, Information and Communication, and Control Activities

We did not maintain effective internal control related to our control environment, risk assessment, information and communication, and control activities:

- In April 2023, we became aware that we were exposed to a ransomware attack in our Information Technology environment which interrupted systems and affected operations. The effect of these circumstances significantly impacted the following:
 - o our ability to access and reinstate our financial systems for an extended period to a new normal state of operation;
 - o the need to rebuild our financial information from backups as a result of the ransomware incident;
 - o additional workload associated with process workflows that were previously automated but were manually performed as a result of the ransomware attack.
- We were required to supplement resources and as a result, did not adequately perform in a timely manner the following:
 - o assessment, redesign and timely evaluation of performance of controls over financial reporting risks as a result of existing IT circumstances; and
 - o generate real time information across the organization to allow the finance department to perform timely application of controls; and
 - o Internal controls over financial reporting related to the recording and processing of revenue transactions could not be completed timely using standard methods due to the limitations of access to data.

Management began remediation measures during and after the April 30, 2023 period end which were substantially implemented by July 31, 2023. During the fourth quarter of fiscal year ended July 31, 2023, evaluation of certain controls effectiveness could not be performed according to the typical frequency or sufficient evidence of control performance was not available for testing due to the cyber incident.

Management assessed the effectiveness of our internal control over financial reporting as of July 31, 2023. In making this assessment, management used the criteria established in Internal Control-Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission ("COSO"). Based on this assessment, management has concluded that, as of July 31, 2023, our internal control over financial reporting was not effective because the fourth quarter included timeframes during which specific data was not available for testing.

4. Report of Independent Registered Accounting Firm

Not applicable.

Item 9B. Other Information

None

Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

None

PART III

Item 10. Directors, Executive Officers and Corporate Governance

The information required under this item will be set forth in the Company's proxy statement to be filed with the Securities and Exchange Commission on or before November 28, 2023 and is incorporated herein by reference.

Item 11. Executive Compensation

The information required under this item will be set forth in the Company's proxy statement to be filed with the Securities and Exchange Commission on or before November 28, 2023 and is incorporated herein by reference.

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

The information required under this item will be set forth in the Company's proxy statement to be filed with the Securities and Exchange Commission on or before November 28, 2023 and is incorporated herein by reference.

Item 13. Certain Relationships and Related Transactions, and Director Independence

The information required under this item will be set forth in the Company's proxy statement to be filed with the Securities and Exchange Commission on or before November 28, 2023 and is incorporated herein by reference.

Item 14. Principal Accountant Fees and Services

The information required under this item will be set forth in the Company's proxy statement expected to be filed with the Securities and Exchange Commission on or before November 28, 2023 and is incorporated herein by reference.

PART IV

Item 15. Exhibits, Financial Statement Schedules

(a) (1) Consolidated Financial Statements	
Consolidated Balance Sheets - July 31, 2023 and 2022	F-3
Consolidated Statements of Operations - Years ended July 31, 2023 and 2022	F-4
Consolidated Statements of Comprehensive Income (Loss) - Years ended July 31, 2023 and 2022	F-5
Consolidated Statements of Stockholders' Equity - Years ended July 31, 2023 and 2022	F-6
Consolidated Statements of Cash Flows - Years ended July 31, 2023 and 2022	F-7
Notes to Consolidated Financial Statements	F-8
(2) Financial Statement Schedule	
Schedule II - Valuation and Qualifying Accounts	S-1

All other schedules have been omitted because the required information is included in the consolidated financial statements or the notes thereto or because they are not required.

(3) Exhibits

The following documents are filed as Exhibits to this Annual Report on Form 10-K:

Exhibit No.	Description
3(a)	Restated Certificate of Incorporation (1)
3(b)	Amended and restated Bylaws (16)
4.1*	Description of Capital Stock
10 (a)	Lease agreement with Pari Management (2)
10 (b)	Amendment No. 1 to Amended and Restated Employment Agreement with Elazar Rabbani (3)
10 (c)	Amendment No. 1 to Amended and Restated Employment Agreement with Barry Weiner (3)
10 (d)	Amendment of Lease with Pari Management (4)
10 (e)	Settlement Release Agreement between the Company and Roche Diagnostics GmbH and Roche Molecular Systems Inc. (5)
10 (f)	Settlement Release Agreement between the Company and Hologic, Inc., Grifolds, S.A. and Grifolds Diagnostic Solutions Inc. (6)
10 (g)	Fee and Leasehold Mortgage and Security Agreement from the Town of Babylon Industrial Development Agency and Enzo Realty II, LLC, to Citibank, N.A. (7).
10 (h)	Amended and Restated 2011 Incentive Plan (8)
10 (i)	Employment agreement for Hamid Erfanian, CEO (9)
10 (j)	Cooperation agreement by and among Enzo Biochem, Inc. and the Radoff Parties (10)
10 (k)	First Amended and Restated Employment Agreement between Enzo Biochem, Inc. and Kara Cannon, effective as of October 20, 2022 (11)
10 (l)	Second Amended and Restated Employment Agreement between Enzo Biochem, Inc. and Hamid Erfanian, effective as of October 20, 2022 (11)
10 (m)	Asset Purchase Agreement, dated as of March 16, 2023, by and among Laboratory Corporation of America Holdings, Enzo Clinical Labs, Inc. and Enzo Biochem, Inc. (12)
10 (n)	Credit Agreement, dated as of March 31, 2023, by and among Enzo Clinical Labs, Inc., Enzo Life Sciences, Inc., Gemino Healthcare Finance, LLC d/b/a SLR Healthcare ABL, Enzo Biochem, Inc. and certain other parties thereto. (13)
10 (o)	Form of Debenture (14)
10 (p)	Form of Warrant (14)
10 (q)	Securities Purchase Agreement, dated May 19, 2023, by and among Enzo Biochem, Inc., the purchasers named therein, and JGB Collateral, LLC. (14)
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10 (r)	Registration Rights Agreement, dated May 19, 2023, by and among Enzo Biochem, Inc. and the purchasers named therein. (14)
10 (s)	Security Agreement, dated May 19, 2023, by and among Enzo Biochem, Inc., each of Enzo Biochem, Inc.,'s specified subsidiaries named therein, the purchasers named therein and JGB Collateral, LLC. (14)
10 (t)	Form of Subsidiary Guarantee (14)
10 (u)	Amendment No. 1 to Asset Purchase Agreement, dated as of July 3, 2023, by and among Enzo Biochem, Inc., Enzo Clinical Labs, Inc., and Laboratory Corporation of America Holdings. (15)
10 (v)	Sublease agreement between Enzo Biochem, Inc. and Siemens Corporation (17)
10 (w)*	Amendment Agreement by and among JGB Capital, LP, JGB (Cayman) Sussex Ltd., Enzo Biochem, Inc. and JGB Collateral LLC
10 (x)*	Separation Agreement and General Release between Hamid Erfanian and Enzo Biochem, Inc.
10 (y)*	Settlement Agreement between Barry Weiner, Shahla Weiner, Roya Weiner, and Jonathan Weiner and Enzo Biochem, Inc., Mary Tagliaferri, Ian Walters, Brad Radoff, and Hamid Erfanian
14 (a)	Code of Ethics (11)
21*	<u>List of subsidiaries of the Company</u>
23.1*	Consent of Independent Registered Public Accounting Firm
31 (a)*	Certification of CEO Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
31 (b)*	Certification of CFO Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
32 (a)*	Certification of CEO Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
32 (b)*	Certification of CFO Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
97.1*	Clawback Policy
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.
104*	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101).

Notes to exhibits

- * Filed herewith
- ** XBRL (Extensible Business Reporting Language) information is being furnished and not filed for purposes of Sections 11 and 12 of the Securities Act of 1933 and Section 18 of the Securities Exchange Act of 1934.
- (1) This exhibit was filed with the Company's Current Report on Form 8-K on April 27, 2022 and is incorporated herein by reference

- (2) This exhibit was filed with the Company's Annual Report on Form 10-K for the year ended July 31, 2005 and is incorporated herein by reference.
- (3) This exhibit was filed with the Company's Current Report on Form 8-K on January 10, 2017 and is incorporated herein by reference.
- (4) This exhibit was filed with the Company's Annual Report on Form 10-K for the year ended July 31, 2015 and is incorporated herein by reference
- (5) This exhibit was filed with the Company's Current Report on Form 8-K on February 11, 2019 and is incorporated herein by reference
- (6) This exhibit was filed with the Company's Current Report on Form 8-K on April 22, 2019 and is incorporated herein by reference
- (7) This exhibit was filed with the Company's Current Report on Form 8-K on November 21, 2018 and is incorporated herein by reference
- (8) This exhibit was filed with the Company's Annual Report on Form 10-K for the year ended July 31, 2021
- (9) This exhibit was filed with the Company's Current Report on Form 8-K on October 18, 2021 and is incorporated herein by reference
- (10) This exhibit was filed with the Company's Current Report on Form 8-K on January 4, 2022 and is incorporated herein by reference
- (11) This exhibit was filed with the Company's Annual Report on Form 10-K for the year ended July 31, 2003 and is incorporated herein by reference
- (12) This exhibit was filed with the Company's Current Report on Form 8-K on March 16, 2023 and is incorporated herein by reference
- (13) This exhibit was filed with the Company's Current Report on Form 8-K on April 5, 2023 and is incorporated herein by reference
- (14) This exhibit was filed with the Company's Current Report on Form 8-K on May 22, 2023 and is incorporated herein by reference
- (15) This exhibit was filed with the Company's Current Report on Form 8-K on July 10, 2023 and is incorporated herein by reference
- (16) This exhibit was filed with the Company's Current Report on Form 8-K on October 30, 2023 and is incorporated herein by reference
- (17) This exhibit was filed with the Company's Annual Report on Form 10-K for the year ended July 31, 2022 and is incorporated herein by reference

SIGNATURES

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.

ENZO BIOCHEM, INC.

Date: November 3, 2023 By: /s/ Kara Cannon

Kara Cannon

Interim Chief Executive Officer

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.

By:	/s/ Kara Cannon Kara Cannon Interim Chief Executive Officer		November 3, 2023
Ву:	/s/ Patricia Eckert Patricia Eckert, Interim Chief Financial Officer, Principal Accounting Officer		November 3, 2023
	Elazar Rabbani, Ph.D., Director		
By:	/s/ Bradley L. Radoff Bradley Radoff, Director		November 3, 2023
By:	/s/ Mary Tagliaferri Mary Tagliaferri, M.D., Director		November 3, 2023
By:	/s/ Ian B. Walters Ian B. Walters, M.D., Director		November 3, 2023
	Steven J. Pully, Chair of the Board		
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ENZO BIOCHEM, INC.

LIST OF CONSOLIDATED FINANCIAL STATEMENTS AND FINANCIAL STATEMENT SCHEDULE

The following consolidated financial statements and financial statement schedule of Enzo Biochem, Inc. are included in Item 15(a):

List of Consolidated Financial Statements and Financial Statements Schedule	F-1
Report of Independent Registered Public Accounting Firm (PCAOB ID 274)	F-2
Consolidated Balance Sheets - July 31, 2023 and 2022	F-3
Consolidated Statements of Operations - Years ended July 31, 2023 and 2022	F-4
Constituted Cultimated in Section 1980 State 1982 and 2082	
Consolidated Statements of Community Income (Local Views and July 21, 2022 and 2022)	E 5
Consolidated Statements of Comprehensive Income (Loss) - Years ended July 31, 2023 and 2022	F-5
Consolidated Statements of Stockholders' Equity - Years ended July 31, 2023 and 2022	F-6
Consolidated Statements of Cash Flows - Years ended July 31, 2023 and 2022	F-7
Constituted Control of Cash 110 to 10 to 1	. ,
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Notes to Consolidated Financial Statements	F-8
Schedule II - Valuation and Qualifying Accounts – As of and for the Years ended July 31, 2023 and 2022	S-1

All other schedules for which provision is made in the applicable accounting regulation of the Securities and Exchange Commission are not required under the related instructions or are inapplicable, and therefore have been omitted.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders of Enzo Biochem. Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Enzo Biochem, Inc. (the "Company") as of July 31, 2023 and 2022, and the related consolidated statements of operations, comprehensive income (loss), stockholders' equity, and cash flows for each of the years then ended, and the related notes and the financial statement schedule identified in Item 15 (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the consolidated financial position of the Company as of July 31, 2023 and 2022, and the consolidated results of their operations and their cash flows for each of the years then ended, in conformity with accounting principles generally accepted in the United States of America.

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 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 accounts or disclosures to which it relates.

Contingencies

As discussed in Note 17 to the consolidated financial statements, the Company is subject to legal claims, lawsuits, and regulatory inquiries. The amounts to settle any liabilities that might arise from the claims and lawsuits could result in adverse consequences to the Company. Contingencies are evaluated and a liability is recorded when the matter is both probable and reasonably estimable. Where the reasonable estimate of the probable loss is a range, management records the most likely estimate of the loss, or the low end of the range if there is no one best estimate. Management either discloses the amount of a possible loss or range of loss in excess of established accruals if estimable and appropriate, or states that such an estimate cannot be made. Management discloses significant legal proceedings even where liability is not probable or the amount of the liability is not estimable, or both, if management believes there is at least a reasonable possibility that a loss may be incurred.

We identified the assessment of loss contingencies relating to pending legal claims, lawsuits, and regulatory inquiries as a critical audit matter due to the significant judgments required by management in assessing the likelihood of a loss being incurred and in estimating the loss or range of loss for each matter. As such, there is a high degree of auditor judgment and subjectivity, and significant audit effort was required in performing procedures to evaluate management's assessment of contingencies.

Addressing the critical audit matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the financial statements. These procedures included, among others, (i) obtaining an understanding of and evaluating the design of controls related to the assessment and valuation of loss contingencies related to pending legal claims, lawsuits, and regulatory inquiries; (ii) obtaining and evaluating the letters of audit inquiry with internal and external legal counsel; (iii) evaluating the reasonableness of management's assessment regarding whether an unfavorable outcome is reasonably possible or probable and reasonably estimable; and (iv) evaluating the sufficiency of the Company's disclosures related to legal proceedings.

/s/ EisnerAmper LLP

We have served as the Company's auditor since 2013.

EISNERAMPER LLP Iselin, New Jersey November 3, 2023

ENZO BIOCHEM, INC. CONSOLIDATED BALANCE SHEETS (in thousands, except share and per share data)

		July 31, 2023		July 31, 2022	
ASSETS					
Current assets:					
Cash and cash equivalents	\$	82,373	\$	21,603	
Accounts receivable, net		4,808		4,762	
Inventories, net		7,939		9,516	
Prepaid expenses and other current assets, including \$1,000 restricted cash		3,336		2,816	
Current assets of discontinued operations, net				4,126	
Total current assets		98,456		42,823	
Property, plant, and equipment, net		13,086		11,636	
Right-of-use assets		3,626		4,384	
Other assets, including \$5,000 escrow at July 31, 2023		5,745		1,309	
Non-current assets of discontinued operations, net		967		15,459	
Total assets	\$	121,880	\$	75,611	
LIABILITIES AND STOCKHOLDERS' EQUITY					
Current liabilities:					
Accounts payable – trade	\$	3,575	\$	3,715	
Accrued liabilities	Ψ	11,743	Ψ	8,179	
Current portion of operating lease liabilities		980		896	
Other current liabilities		75		229	
Convertible debentures		2,514		_	
Current liabilities of discontinued operations, net		21,102		_	
Total current liabilities		39,989		13,019	
Operating lease liabilities, non-current		3,160		4,053	
Long term debt, net		269		4,077	
Total liabilities	\$	43,418	\$	21,149	
Commitments and contingencies – see Notes 16 and 17					
Stockholders' equity:					
Preferred Stock, \$.01 par value; authorized 25,000,000 shares; no shares issued or outstanding		_		_	
Common Stock, \$.01 par value; authorized 75,000,000 shares; shares issued and outstanding: 49,997,631 at July 31, 2023 and		499		107	
48,720,454 at July 31, 2022 Additional paid-in capital		344,435		487 339,462	
Accumulated deficit		(268,350)		(288,638)	
Accumulated deficit Accumulated other comprehensive income		1,878		3,151	
*	_				
Total stockholders' equity		78,462		54,462	

The accompanying notes are an integral part of these consolidated financial statements

ENZO BIOCHEM, INC. CONSOLIDATED STATEMENTS OF OPERATIONS (in thousands, except per share data)

	Years endo	ed July 31,
	2023	2022
Revenues	\$ 31,061	\$ 32,643
0		
Operating costs, expenses and legal settlements, net: Cost of revenues	17.066	10.212
	17,866	19,213
Cost of revenue – inventory provision	1,629	2 420
Research and development	3,904	2,438
Selling, general, and administrative	27,202	23,084
Legal and related expenses	5,196	5,435
Legal settlements		(500)
Total costs, expenses and legal settlements, net	55,797	49,670
Operating loss	(24,736)	(17,027)
	· ,	
Other income (expense):		
Interest, net	(1,122)	178
Change in fair value of convertible debentures	(824)	_
Other	380	(1,268)
Foreign exchange gain (loss)	1,280	(2,222)
Loss before income taxes	(25,022)	(20,339)
Income taxes	(,,)	(=0,000)
Net loss from continuing operations	\$ (25,022)	\$ (20,339)
Net (loss) income from discontinued operations	(23,022) $(37,321)$	2,078
Gain on sale of discontinued operations, net of tax	· · · · · · · · · · · · · · · · · · ·	2,078
	82,631	
Net income (loss)	20,288	(18,261)
Net income (loss) per common share – basic and diluted:		
Continuing operations	\$ (0.51)	\$ (0.42)
Discontinued operations	0.92	0.04
*		
Total net income (loss) per basic and diluted common share	\$ 0.41	\$ (0.38)
Weighted average common shares outstanding:		
Basic	49,160	48,594
Diluted	49,160	48,594

The accompanying notes are an integral part of these consolidated financial statements

ENZO BIOCHEM, INC. CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS) (in thousands)

	Years	ended July 31,
	2023	2022
Net income (loss)	\$ 20,2	\$ (18,261)
Other comprehensive income (loss):		
Foreign currency translation adjustments	(1,2	73) 1,799
Comprehensive income (loss)	\$ 19,0	15 \$ (16,462)

The accompanying notes are an integral part of these consolidated financial statements.

ENZO BIOCHEM, INC. CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY Years ended July 31, 2023 and 2022 (in thousands, except share data)

	Common Stock Shares Issued	Common Stock Amount	 Additional Paid-in Capital	A	ccumulated Deficit	Accumulated Other omprehensive Income	er Total ensive Stockhold ne Equity	
Balance at July 31, 2021	48,471,771	\$ 485	\$ 337,126	\$	(270,377)	\$ 1,352	\$	68,586
Net loss for the year ended July 31, 2022	_	_	_		(18,261)	_		(18,261)
Exercise of stock options	11,300	_	28		_	_		28
Share-based compensation charges	_	_	1,496		_	_		1,496
Issuance of common stock for employee 401(k)								
plan match	237,383	2	812		_			814
Foreign currency translation adjustments	_					1,799		1,799
Balance at July 31, 2022	48,720,454	\$ 487	\$ 339,462	\$	(288,638)	\$ 3,151	\$	54,462
Net income for the year ended July 31, 2023	_	_	_		20,288	_		20,288
Vesting of restricted stock	125,731	1	_		_	_		1
Vesting of performance stock	25,200	_	_		_	_		_
Exercise of stock options	6,667	_	14		_	_		14
Issuance of common stock (net of expenses of	27 (170	•	202					206
\$12)	276,479	3	383		_			386
Share-based compensation charges	_	_	2,268		_	_		2,268
Issuance of common stock for employee 401(k)								
plan match	843,100	8	1,071		_	_		1,079
Issuance of warrants	_	_	1,237		_	_		1,237
Foreign currency translation adjustments						(1,273)		(1,273)
Balance at July 31, 2023	49,997,631	\$ 499	\$ 344,435	\$	(268,350)	\$ 1,878	\$	78,462

The accompanying notes are an integral part of these consolidated financial statements

ENZO BIOCHEM, INC. CONSOLIDATED STATEMENTS OF CASH FLOWS (in thousands)

	Year ende	d July 31,	
	2023	2022	
Cash flows from operating activities:			
Net income (loss)	\$ 20,288	\$ (18,261)	
Adjustments to reconcile net income (loss) to net cash used in operating activities:			
Gain on sale of discontinued operations, net of tax	(82,631)	_	
Change in fair value of convertible debentures	824	_	
Depreciation and amortization of property, plant and equipment	2,682	2,566	
Amortization of intangible assets	_	261	
Share-based compensation charges	2,268	1,496	
Share-based 401(k) employer match expense	880	843	
Foreign exchange (gain) loss Realized and unrealized loss on marketable securities	(1,674)	2,057	
Provision for inventories	1,629	1,283	
Impairments of other assets	200	_	
impairments of other assets	200	_	
Changes in operating assets and liabilities:			
Accounts receivable	5,033	(1,299)	
Inventories	(334)	(2,736)	
Prepaid expenses and other assets	105	(1,174)	
Accounts payable – trade	1,159	390	
Accrued liabilities, other current liabilities and other liabilities	12,595	(2,016)	
Total adjustments	(57,264)	1,671	
Net cash used in operating activities	(36,976)	(16,590)	
Cash flows from investing activities:	101.710		
Net proceeds from sale of discontinued operations	101,740	(2.472)	
Capital expenditures	(2,760)	(3,472)	
Sales of marketable securities		28,695	
Net cash provided by investing activities	98,980	25,223	
Cash flows from financing activities:			
Net proceeds from issuance of common stock through ATM	386	_	
Proceeds from issuance of convertible debentures and warrants	7,000	_	
Repayments of convertible debentures	(4,000)	_	
Cost of issuance of convertible debentures and warrants	(389)	_	
Proceeds from borrowings under revolving credit agreement	16,846	_	
Repayments under revolving credit agreement	(16,846)		
Repayments under mortgage agreement and capital leases	(4,136)	(269)	
Proceeds from exercise of stock options	14	28	
Net cash used in financing activities	(1,125)	(241)	
Effect of exchange rate changes on cash and cash equivalents	(109)	(63)	
	(0.770	0.220	
Increase in cash and cash equivalents and restricted cash	60,770	8,329	
Cash and cash equivalents and restricted cash - beginning of year	22,603	14,274	
Cash and cash equivalents and restricted cash - end of year	\$ 83,373	\$ 22,603	
Composition of cash and cash equivalents and restricted cash is as follows:			
Cash and cash equivalents	82,373	21,603	
Restricted cash	1,000	1,000	
Total cash and cash equivalents and restricted cash			
Total Casil and Casil equivalents and restricted Casil	\$ 83,373	\$ 22,603	

The accompanying notes are an integral part of these consolidated financial statements

(Dollars in thousands except share data)

Note 1 - Organization and business

Enzo Biochem, Inc. (the "Company" "we", "our" or "Enzo"), is a manufacturer and supplier of a comprehensive portfolio of thousands of high-quality products, including antibodies, genomic probes, assays, biochemicals, and proteins. The Company's proprietary products and technologies play central roles in translational research and drug development areas, including cell biology, genomics, assays, immunohistochemistry, and small molecule chemistry. Enzo Biochem, Inc.'s Life Science division supports the work of research centers and industry partners. Enzo Biochem, Inc. has a broad and deep intellectual property portfolio, with patent coverage across many vital enabling technologies.

Note 2 - Discontinued operations, sale of Clinical Labs business

Prior to July 24, 2023, we operated a clinical laboratory, doing business as Enzo Clinical Labs, which provided reference, molecular and esoteric diagnostic medical testing services in the New York, New Jersey, and Connecticut medical communities. Effective July 24, 2023, we completed the sale of certain assets used in the operation of Enzo Clinical Labs and the assignment of certain clinical lab liabilities to Laboratory Corporation of America ("Labcorp") for an aggregate purchase price of \$113.25 million in cash, subject to customary closing adjustments. In accordance with the sale, we ceased our clinical services operations. As a consequence of the sale, for fiscal years 2023 and 2022 we have classified as discontinued operations all income and expenses attributable to the clinical services business, the gain from the sale of the clinical services assets, and the income tax expense attributed to the sale of the clinical services assets. Excluded from the sale of the clinical services assets were its cash and accounts receivable.

The gain on the sale of the Clinical Labs business and net proceeds were as follows:

Gross consideration from the sale of the Clinical Labs business	\$ 113,250
Closing and transaction costs	 (9,941)
Consideration from sale of the Clinical Labs business – net	103,309
Net book value of assets sold or abandoned	(19,818)
Gain on sale of the Clinical Labs business before income taxes	83,491
Income tax expense	(860)
Gain on the sale of the Clinical Labs business after income taxes	\$ 82,631
Net cash proceeds from sale:	
Cash paid at closing, net of closing costs paid at closing	\$ 106,740
Proceeds due on sale of assets, cash held in escrow	(5,000)
Net cash proceeds from sale	\$ 101,740

We incurred \$9,941 in closing and transaction costs associated with the sale of the Clinical Labs business which were comprised of (i) transaction fees and related closing costs of \$7,238 and (ii) performance bonuses to certain employees associated with the sale of the business of \$2,703. The compensation committee of our board of directors approved these compensation arrangements.

ENZO BIOCHEM, INC. NOTES TO CONSOLIDATED FINANCIAL STATEMENTS July 31, 2023 (Dollars in thousands except share data)

The following table sets forth the condensed operating results of the discontinued operations for the fiscal years ended July 31,

Net revenues

Cost of revenues				
		38,163		45,891
Selling, general and administrative		28,270		24,934
Research and development		720		1,329
Legal and related expenses		250		254
Other (expense) income		(5)		58
(Loss) income from operations		(37,321)		2,078
Gain on sale of business – before taxes		83,491		_
Income tax expense on gain		(860)		_
Income from discontinued operations	\$	45,310	\$	2,078
The following table sets forth the condensed carrying amounts of major classes of assets and liabilities of the discontinued operation	ions as of Ju	ıly 31,		
		2023		2022
Carrying amounts of major current assets included as part of discontinued operations:				
Trade receivables	\$	1,675	\$	6,754
Inventories				5,895
Prepaid and other current		54		3,008
Total current assets		1,729		15,657
Carrying amounts of major current liabilities included as part of discontinued operations:				
Trade payables and accrued liabilities		20,616		8,914
Operating lease liabilities and other		2,215		2,617
Total current liabilities		22,831	_	11,531
Current liabilities of discontinued operations, net		21,102		
Current assets of discontinued operations, net				4,126
<u>Carrying amount of major non-current assets included as part of discontinued operations:</u> Right of use assets	\$	7,001	\$	10,790
Property, plant and equipment	Þ	7,001	Ф	5,623
Goodwill and other		62		7,760
	_		_	
Total non- current assets		7,063		24,173
Carrying amount of major non-current liabilities included as part of discontinued operations:				
Operating lease liabilities and other		6,096		8,714

(Dollars in thousands except share data)

During the fiscal year ended July 31, 2023, the cash used in operating activities of the discontinued operations was \$19,000 and the cash provided by investing activities was \$101,300. During the fiscal year ended July 31, 2022, the cash used in operating activities and investing activities of the discontinued operations was \$4,224 and \$815, respectively.

Note 3 - Summary of significant accounting policies

For the fiscal years ended July 31, 2023 and 2022, our revenues from continuing operations come from the sales of our products in the Products segment.

Principles of consolidation

The accompanying consolidated financial statements have been prepared in conformity with accounting principles generally accepted in the United States of America ("U.S. GAAP") and include the accounts of the Company and its wholly-owned subsidiaries, Enzo Life Sciences, Inc., (and its wholly-owned foreign subsidiaries), Enzo Therapeutics, Inc., Enzo Realty LLC ("Realty"), Enzo Realty II, LLC ("Realty II"), and Enzo Clinical Labs, Inc., (a corporate entity with discontinued operations). All intercompany transactions and balances have been eliminated.

Change in Segment Reporting

Historically, we engaged in the research and development of therapeutic candidates through Enzo Therapeutics, a biopharmaceutical venture that was developing multiple novel approaches in the areas of gastrointestinal, infectious, ophthalmic and metabolic diseases, many of which were derived from the researching work of Enzo Life Sciences. Enzo Therapeutics focused its efforts on researching treatment regimens for diseases and conditions for which treatment options were ineffective, costly, and/or caused unwanted side effects. This focus generated a clinical and preclinical pipeline, as well as numerous patents and patent applications with Enzo Therapeutics as the assignee. At the beginning of fiscal 2023, we determined we would redirect our research resources and efforts to our two then operating segments, Clinical Services and Products, and no longer consider Enzo Therapeutics a segment. The operating results of Enzo Therapeutics are now included in the "Corporate and Other" segment for all periods presented. The operating expenses of Enzo Therapeutics for the fiscal years ended July 31, 2023 and 2022 are now included in the "Corporate and Other" segment were \$40 and \$55, respectively.

Use of Estimates

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting periods. Actual results could differ from those estimates.

Contingencies

Contingencies are evaluated and a liability is recorded when the matter is both probable and reasonably estimable. Gain contingencies are evaluated and not recognized until the gain is realizable or realized.

Foreign Currency Translation/Transactions

The Company has determined that the functional currency for its foreign subsidiaries is the local currency. For financial reporting purposes, assets and liabilities denominated in foreign currencies are translated at current exchange rates and profit and loss accounts are translated at weighted average exchange rates. Resulting translation gains and losses are included as a separate component of stockholders' equity as accumulated other comprehensive income or loss. Gains or losses resulting from transactions entered into in other than the functional currency are recorded as foreign exchange gains and losses in the consolidated statements of operations.

(Dollars in thousands except share data)

Fair Value Measurements

The Company determines fair value measurements used in its consolidated financial statements based upon the exit price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants exclusive of any transaction costs, as determined by either the principal market or the most advantageous market. Inputs used in the valuation techniques to derive fair values are classified based on a three-level hierarchy. The basis for fair value measurements for each level within the hierarchy is described below with Level 1 having the highest priority and Level 3 having the lowest.

Level 1 Quoted prices in active markets for identical assets or liabilities.

Level 2 Quoted prices for similar assets or liabilities in active markets; quoted prices for identical or similar instruments in markets that are not active; and model-derived valuations in which all significant inputs are observable in active markets.

Level 3 Valuations derived from valuation techniques in which one or more significant inputs are unobservable.

Cash and cash equivalents

Cash and cash equivalents consist of demand deposits with banks and highly liquid money market funds. At July 31, 2023 and 2022, the Company had cash and cash equivalents in foreign bank accounts of \$419 and \$590, respectively.

Marketable securities

At the beginning of fiscal year 2022, the Company had investments in a mutual fund and an exchange traded fund (ETF) holding highly rated corporate bonds, asset backed securities, municipal bonds, mortgage obligations and government obligations. These investments were classified as trading securities and Level 1 fair value investments (quoted prices in active markets for identical assets or liabilities). During fiscal year 2022, these investments were sold resulting in a realized loss of \$1,283, which is included in Other income (expense).

Concentration of Credit Risk

Financial instruments that potentially subject the Company to concentrations of credit risk primarily consist of cash and cash equivalents and accounts receivable. The Company believes the fair value of the aforementioned financial instruments approximates the cost due to the immediate or short-term nature of these items. At July 31, 2023 and 2022, the Company had cash deposited in certain financial institutions in excess of federally insured levels. The Company regularly monitors the financial stability of these financial institutions and believes that it is not exposed to any significant credit risk in cash and cash equivalents or restricted cash.

Concentration of credit risk with respect to the Company's Products segment is mitigated by the diversity of the Company's customers and their dispersion across many different geographic regions. To reduce risk, the Company routinely assesses the financial strength of these customers and, consequently, believes that its accounts receivable credit exposure with respect to these customers is limited.

Accounts Receivable

Accounts receivable are reported at realizable value, net of allowances for doubtful accounts, which is estimated and recorded in the period of the related revenue.

(Dollars in thousands except share data)

As of July 31, 2023 and 2022, Products' accounts receivable, net were \$4,808 and \$4,762, respectively. As of July 31, 2023 and 2022, these totals include foreign receivables, net of \$1,277 and \$1,142, respectively. As of July 31, 2021, Products accounts receivable, net were \$4,182 which includes \$1,400 of foreign receivables, net.

Inventories

The Company values inventory at the lower of cost (first-in, first-out) or net realizable value. Work-in-process and finished goods inventories consist of material, labor, and manufacturing overhead. Finished goods also include high throughput machines we intend to sell to laboratory customers, of which approximately \$1.6 million were fully reserved in 2023 and reflected in a separate line item in the Consolidated Statements of Operations as Cost of revenues-inventory provision. Write downs of inventories to net realizable value are based on a review of inventory quantities on hand and estimated sales forecasts based on sales history and anticipated future demand. Unanticipated changes in demand could have a significant impact on the value of our inventory and require additional write downs of inventory which would impact our results of operations.

Property, plant and equipment

Property, plant and equipment is stated at cost, and depreciated on the straight-line basis over the estimated useful lives of the various asset classes as follows: building and building improvements: 15-30 years; laboratory machinery and equipment, office furniture and computer equipment: 3-10 years. Leasehold improvements are amortized over the term of the related leases or estimated useful lives of the assets, whichever is shorter.

Impairment testing for Long-Lived Assets

The Company reviews the recoverability of the carrying value of long-lived assets of an asset or asset group for impairment if indicators of potential impairment exist. Should indicators of impairment exist, the carrying values of the assets are evaluated in relation to the operating performance and future undiscounted cash flows of an asset or asset group. The net book value of the long lived asset is adjusted to fair value if its expected future undiscounted cash flow is less than its book value. There were no long-lived asset impairments in 2023 or 2022.

Comprehensive income (loss)

Comprehensive income (loss) consists of the Company's consolidated net income (loss) and foreign currency translation adjustments. Foreign currency translation adjustments included in comprehensive income (loss) were not tax effected as the Company has a full valuation allowance at July 31, 2023 and 2022 in the foreign jurisdictions affected. Accumulated other comprehensive income is a separate component of stockholders' equity and consists of the cumulative foreign currency translation adjustments.

Shipping and Handling Costs

Shipping and handling costs associated with the distribution of finished goods to customers are recorded in cost of goods sold.

Research and Development

Research and development costs are charged to expense as incurred.

Advertising

All costs associated with advertising are expensed as incurred. Advertising expense, included in selling, general and administrative expense, approximated \$345 and \$577 for the years ended July 31, 2023 and 2022, respectively.

(Dollars in thousands except share data)

Income Taxes

The Company accounts for income taxes under the liability method of accounting for income taxes. Under the liability method, deferred tax assets and liabilities are recognized for the future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases. The liability method requires that any tax benefits recognized for net operating loss carry forwards and other items be reduced by a valuation allowance when it is more likely than not that the benefits may not be realized.

Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled.

Under the liability method, the effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date.

It is the Company's policy to provide for uncertain tax positions and the related interest and penalties based upon management's assessment of whether a tax benefit is more likely than not to be sustained upon examination by tax authorities. At July 31, 2023 and 2022, the Company had no uncertain tax benefits recorded. To the extent the Company prevails in matters for which a liability for an unrecognized tax benefit is established or is required to pay amounts in excess of the liability, the Company's effective tax rate in a given financial statement period may be affected.

Segment Reporting

The Company separately reports information about each operating segment that engages in business activities from which the segment may earn revenues and incur expenses, whose separate operating results are regularly reviewed by the chief operating decision maker regarding allocation of resources and performance assessment and which exceed specific quantitative thresholds related to revenue and profit or loss. The Company's Enzo Life Sciences operating activities are reported in one segment, Products. Costs excluded from this reporting unit and reported as "Corporate and Other" consist of corporate general and administrative costs and operating results of Enzo Therapeutics which are not allocable to the reportable segment (see Note 18).

Net income (loss) per share

Basic net income (loss) per share represents net income (loss) divided by the weighted average number of common shares outstanding during the period. The dilutive effect of potential common shares, consisting of outstanding stock options, and unvested restricted stock units and performance stock units, is determined using the treasury stock method.

For the years ended July 31, 2023 and 2022, the effect of approximately 3,254,500 and 1,499,000 respectively, of outstanding "out of the money" options to purchase common shares were excluded from the calculation of diluted weighted average shares outstanding because their effect would be anti-dilutive. For the years ended July 31, 2023 and 2022, the effect of approximately 120,000 and 472,000 respectively, of outstanding restricted stock units and performance stock units were excluded from the calculation of diluted weighted average shares outstanding because their effect would be anti-dilutive. During the year ended July 31, 2023, the effect of approximately 16,000 warrants were excluded from the calculation of diluted weighted average shares outstanding because their effect would be anti-dilutive. During the year ended July 31, 2023, the effect of approximately 120,000 shares related to the assumed conversion of the debentures were excluded from the calculation of diluted weighted average shares outstanding because their effect would be anti-dilutive.

(Dollars in thousands except share data)

The following table sets forth the computation of basic and diluted net income (loss) per share for the years ended July 31 (in thousands except for per share amounts):

	2023	2022
Net (loss) from continuing operations	\$ (25,022)	\$ (20,339)
Net income from discontinued operations	 45,310	2,078
Net income (loss)	\$ 20,288	\$ (18,261)
Weighted-average common shares outstanding – basic	 49,160	48,594
Net income (loss) per common share – basic and diluted:		
Continuing operations	\$ (0.51)	\$ (0.42)
Discontinued operations	 0.92	0.04
Total net income (loss) per basic and diluted common share	\$ 0.41	\$ (0.38)

Share-Based Compensation

The Company records compensation expense associated with stock options, restricted stock units and performance stock units based upon the fair value of the stock based awards as measured at the grant date. The Company determines the award values of stock options using the Black Scholes option pricing model or the fair value of our stock at the date of grant. The expense is recognized by amortizing the fair values on a straight-line basis over the vesting period, adjusted for forfeitures when they occur.

For the years ended July 31, 2023 and 2022, share-based compensation expense relating to the fair value of stock options, restricted stock units and performance stock units was approximately \$1,772 and \$1,298, respectively (see Note 14). No excess tax benefits were recognized for the year ended July 31, 2023 and 2022.

The following table sets forth the amount of expense related to share-based payment arrangements included in specific line items in the accompanying statement of operations for the years ended July 31:

	2	2023	 2022
Cost of revenues	\$	22	\$ 6
Selling, general and administrative		1,750	1,292
	\$	1,772	\$ 1,298

Effect of New Accounting Pronouncements

Recently Adopted Accounting Pronouncements

In August 2020, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") No. 2020-06 Accounting for Convertible Instruments and Contracts in an Entity's Own Equity (Subtopic 470-20). The amendments in the ASU simplify the settlement assessment by removing requirements to (1) to consider whether the contract would be settled in registered shares, (2) to consider whether collateral is required to be posted, and (3) to assess shareholder rights. The amendments require instruments that are required to be classified as an asset or liability to measured subsequently at fair value, with changed reported in earnings and disclosed in the financial statements. The amendments improve the consistency of EPS calculations by amending the guidance to align the diluted EPS calculation for convertible instruments by requiring that an entity use the if-converted method rather than the treasury stock method. The amendments also require that the effect of potential share settlement be included in the diluted EPS calculation when an instrument may be settled in cash or shares. Until the issuance of the Debentures (see Note 9), the Company had no instruments affected by ASU 2020-06. We adopted the amendments in this ASU effective with the issuance of the Debentures in the fiscal quarter ended July 31, 2023, which did not have a material impact on our financial position or results of operations.

(Dollars in thousands except share data)

Pronouncements Issued but Not Yet Adopted

In June 2016, FASB issued ASU No. 2016-13 Financial Instruments – *Credit Losses* (Topic 326). This standard changes the impairment model for most financial instruments, including trade receivables, from an incurred loss method to a new forward-looking approach, based on expected losses.

The estimate of expected credit losses will require entities to incorporate considerations of historical information, current information and reasonable and supportable forecasts. Adoption of this standard is required for our annual and interim periods beginning August 1, 2023, as we qualify as a smaller reporting company at the end of fiscal 2022 and must be adopted using a modified retrospective transition approach. We do not expect the impact of the adoption of this standard on our results of operations, financial position and cash flows to be material.

We reviewed all other recently issued accounting pronouncements and have concluded they are not applicable or not expected to be significant to the accounting for our operations.

Reclassification

Certain prior period amounts have been reclassified to conform to the current period presentation. These reclassifications had no effect on the reported results of operations.

Intangible assets

The Company's Products segment held finite lived intangibles until July 31, 2022 at which time the intangibles were fully amortized. Amortization expense for the year ended July 31, 2022 was \$239.

Note 4 - Revenue Recognition

Products Revenue

The Company generates revenue from the sale of our single-use products used in the identification of genomic information. Revenue is recorded net of sales tax. The Company considers revenue to be earned when all of the following criteria are met: the Company has a contract with a customer that creates enforceable rights and obligations; promised products are identified; the transaction price is determinable; and the Company has transferred control of the promised items to the customer. A performance obligation is a promise in a contract to transfer a distinct good or service to the customer, and is the unit of account in the contract. The transaction price for the contract is measured as the amount of consideration the Company expects to receive in exchange for the goods expected to be transferred. A contract's transaction price is allocated to each distinct performance obligation and recognized as revenue when, or as, control of the distinct good or service is transferred. Transfer of control for the Company's products is generally at shipment or delivery, depending on contractual terms, but occurs when title and risk of loss transfers to the customer which represents the point in time when the customer obtains the use of and substantially all of the remaining benefit of the product. As such, the Company's performance obligation related to product sales is satisfied at a point in time. The Company recognizes a receivable when it has an unconditional right to payment, which represents the amount the Company expects to collect in a transaction and is most often equal to the transaction price in the contract. Payment terms for shipments to end-user and distributor customers may range from 30 to 90 days. Amounts billed to customers for shipping and handling are included in revenue, while the related shipping and handling costs are reflected in cost of revenues.

(Dollars in thousands except share data)

Products revenue by geography is as follows:

	 2023		2022
United States	\$ 18,551	\$	19,781
Europe	8,448		8,568
Asia Pacific	 4,062		4,294
Products revenue	\$ 31,061	\$	32,643

Note 5 - Supplemental disclosure for statement of cash flows

In the years ended July 31, 2023 and 2022, interest paid by the Company, including penalties and fees approximated \$1,246 and \$231, respectively.

For the years ended July 31, 2023 and 2022, the net reductions in the measurement of right of use assets and liabilities included in cash flows from operating activities was approximately \$38 and \$29, respectively. The changes are included in changes in accrued liabilities, other current liabilities, and other liabilities in the statements of cash flows.

In connection with the completed sale of certain assets used in the operation of Enzo Clinical Labs, \$5,000 of proceeds were included in other assets as escrow as of July 31, 2023.

For the years ended July 31, 2023 and 2022, tax on capital paid by the Company was \$22 and \$129 respectively. There was no cash paid for income taxes by the Company for the years ended July 31, 2023 and 2022.

During the years ended July 31, 2023 and 2022, the Company issued common stock in connection with its share-based 401(k) employer match in the amount of \$1,079 and \$814, respectively.

Note 6 - Inventories

Inventories, net consisted of the following at July 31:

	2023	2022	
Raw materials	\$ 2,206	\$	1,524
Work in process	2,599		2,460
Finished products	3,134		5,532
	\$ 7,939	\$	9,516

Note 7 - Property, plant, and equipment

At July 31, 2023 and 2022, property, plant, and equipment consist of:

		2023	2022
Building and building improvements	\$	12,501	\$ 11,819
Machinery and equipment		6,988	3,262
Office furniture and computer equipment		7,928	9,978
Leasehold improvements		887	646
		28,304	25,705
Accumulated depreciation and amortization		(17,280)	(16,131)
	'	11,024	 9,574
Land and land improvements		2,062	2,062
	\$	13,086	\$ 11,636

(Dollars in thousands except share data)

At July 31, 2023 and 2022, building and building improvements included construction in progress of approximately \$436 and \$323, respectively.

Note 8 - Income taxes

The Company recorded no benefit or provision for income taxes for fiscal years ended July 31, 2023 and 2022.

Deferred tax assets and liabilities arise from temporary differences between the tax basis of assets and liabilities and their reported amounts in the financial statements. The components of deferred tax assets (liabilities) as of July 31 are as follows:

		2023	2022	
Deferred tax assets:				
Federal tax carryforward losses	\$	11,345	20,303	
Provision for uncollectible accounts receivable		878	635	
State and local tax carry forward losses		97	2,758	
Stock compensation		2,349	1,766	
Depreciation		563	875	
Research and development and other tax credit carryforwards		1,652	1,551	
Lease liabilities		3,232	4,594	
Foreign tax carryforward losses		3,708	3,213	
Intangibles and goodwill		83	481	
Inventory		1,623	1,769	
Accrued expenses		4,463	2,199	
Other, net		13	12	
Deferred tax assets		30,006	40,156	
Right of use assets		(2,757)	(4,313)	
Prepaid expenses		(507)	(1,175)	
Other, net		(57)	(58)	
Deferred tax liabilities		(3,321)	(5,546)	
		(0,000)	(0,0.10)	
Net deferred tax assets before valuation allowance		26,685	34,610	
Less: valuation allowance		(26,685)	(34,610)	
Net deferred tax assets	<u> </u>	(20,003)	(34,010)	
ive deterior day assess	2		<u> </u>	

The Company recorded a valuation allowance during the years ended July 31, 2023 and 2022 equal to domestic and foreign net deferred tax assets. The Company believes that the valuation allowance is necessary as it is not more likely than not that the deferred tax assets will be realized in the foreseeable future based on positive and negative evidence available at this time. This conclusion was reached because of uncertainties relating to future taxable income, in terms of both its timing and its sufficiency, which would enable the Company to realize the deferred tax assets. For fiscal years 2023 and 2022, the change in the valuation allowance was (\$7,925) and \$4,736, respectively.

As of July 31, 2023, the Company had U.S. federal net operating loss carryforwards of approximately \$54,025 of which \$16,214, if not fully utilized, expire between 2030 and 2038 and which \$37,811 do not expire. The Company has local net operating loss carryforwards of \$1,101 which expire in 2042. Utilization is dependent on generating sufficient taxable income prior to expiration of the tax loss carryforwards.

(Dollars in thousands except share data)

In addition, the Company has research and development tax credit carryforwards of approximately \$1,646 which expire between 2025 and 2043. As of July 31, 2023, the Company had foreign loss carryforwards of approximately \$16,574 which with few exceptions do not expire.

The geographic components of loss before income taxes consisted of the following for the years ended July 31:

	2023	 2022
United States operations	\$ (23,714)	\$ (16,345)
International operations	(1,308)	(3,994)
(Loss) income before taxes	\$ (25,022)	\$ (20,339)

The benefit for income taxes was at rates different from U.S. federal statutory rates for the following reasons for the years ended July 31:

	2023	2022
Federal statutory rate	21.0%	21.0%
Compensation and other expenses not deductible for income tax return purposes	(1.4)	(2.9)
Change in valuation allowance, net	(19.6)	(18.1)
	%	%

Because there are no undistributed earnings at the Company's foreign subsidiaries at July 31, 2023, no U.S. federal income taxes have been provided. As of July 31, 2023, the Company has no liabilities for uncertain tax positions. It is the Company's policy to record interest and penalties as a component of tax expense. The Company files income tax returns in the U.S. Federal jurisdiction, various U.S. state jurisdictions and several foreign jurisdictions. With few exceptions, the fiscal years that remain subject to examination are July 31, 2020 through July 31, 2023.

Note 9 - Convertible debentures and other current debt

On May 19, 2023, the Company entered into a Securities Purchase Agreement (the "Purchase Agreement") with each of the purchasers that are parties thereto (each, including its successors and assigns, a "Purchaser" and collectively, the "Purchasers") and JGB Collateral, LLC, a Delaware limited liability company, as collateral agent for the Purchasers (the "Agent"). Pursuant to the Purchase Agreement, the Company agreed to sell to the Purchasers (i) 10% Original Issue Discount Secured Convertible Debentures (the "Debentures") with an aggregate principal amount of \$7,608 and (ii) warrants to purchase up to 1,000,000 shares of the Company's common stock, par value \$0.01 per share (the "Common Stock"), for an exercise price of \$2.31 per share, the average of the three (3) daily volume weighted average prices of the Common Stock as defined in the Purchase Agreement ("VWAP") prior to the closing date (the "Warrants"), subject to adjustments as set forth in the Warrants, for a total purchase price of \$7,000. The Purchase Agreement contains customary representations, warranties and covenants. The transactions contemplated by the Purchase Agreement were consummated on May 19, 2023. Pursuant to ASC 825, *Fair Value Option*, the Company made an irrevocable election at the time of issuance to report the Debentures at fair value with changes in fair value recorded through the Company's consolidated statements of operations as other income (expense) in each reporting period.

(Dollars in thousands except share data)

Debentures

The Debentures bear interest at a rate of 10% per annum (which interest rate is increased to 18% per annum five days after the occurrence and continuance of an Event of Default (as defined in the Debentures)), have a maturity date of May 20, 2024 and are convertible, at any time after their issuance date at the option of the Purchasers, into shares of Common Stock at a conversion price equal to \$3.01 per share (the "Conversion Price"), subject to adjustment as set forth in the Debentures. Following the consummation of the Company's sale of certain assets and assignment of certain liabilities of Enzo Clinical Labs, Inc., to Labcorp pursuant to the Asset Purchase Agreement, dated March 16, 2023 (the "Asset Sale"), the Company shall either, at the option of the Company upon written notice delivered to the Purchasers within three (3) trading days after the consummation of the Asset Sale, (i) prepay \$4,000 of the outstanding principal amount of the Debentures (to be applied pro rata among the outstanding Debentures based on the relative outstanding principal balance of each Debenture) or (ii) deposit \$4,000 in cash, as collateral for the Company's obligations, into a deposit account subject to a deposit account control agreement, among the Company, the depository bank and the Agent and otherwise acceptable to Agent (in its sole absolute discretion) in form and substance. The Company prepaid \$4,000 of the outstanding principal amount prior to July 31, 2023.

The Company's obligations under the Debentures could have been accelerated, at the Purchasers' election, upon the occurrence of certain customary events of default. As of July 31, 2023, there were no events of default. The Debentures contain customary representations, warranties and covenants including among other things and subject to certain exceptions, covenants that restrict the Company from incurring additional indebtedness, creating or permitting liens on assets, amending its charter documents and bylaws, repurchasing or otherwise acquiring more than a de minimis number of its Common Stock or equivalents thereof, repaying outstanding indebtedness, paying dividends or distributions, assigning or selling certain assets, making or holding any investments, and entering into transactions with affiliates.

The following table presents a reconciliation of the beginning and ending balances of the convertible debentures measured at fair value on a recurring basis that use significant unobservable inputs (Level 3) and the related unrealized losses recorded in the consolidated statement of operations during the year ended July 31, 2023:

Issuance of convertible debt and warrants at fair value	\$ 7,000
Allocation of warrants to additional paid in capital based on relative fair value	(1,310)
Repayment	(4,000)
Change in fair value of convertible debentures	824
Fair value, July 31, 2023	\$ 2,514

Security Agreement and Subsidiary Guarantees

In connection with the Purchase Agreement, on May 19, 2023, the Company, certain of the Company's domestic subsidiaries ("Guarantors"), the Purchasers and the Agent entered into a Security Agreement (the "Security Agreement"), pursuant to which the Company and the Guarantors granted, for the benefit of the Purchasers, to secure the Company's obligations under the Purchase Agreement and the Debentures.

Warrants

The Warrants are exercisable for five years from May 19, 2023, at an exercise price of \$2.31 per share, which is the average of three (3) daily VWAPs prior to the closing date, subject, with certain exceptions, to adjustments in the event of stock splits, dividends, subsequent dilutive offerings and certain fundamental transactions, as more fully described in the Warrant.

Registration Rights Agreement

In connection with the Purchase Agreement, on May 19, 2023, the Company and the Purchasers entered into a Registration Rights Agreement, pursuant to which the Company is obligated to register the shares of Company Common Stock issuable upon exercise of the Debentures and the Warrants. The Company has registered the shares.

(Dollars in thousands except share data)

Other

In March 2023, the Company entered into a Revolving Loan and Security Agreement with Gemino Healthcare Finance, LLC d/b/a SLR Healthcare ABL as lender specializing in direct lending to middle-market companies in the healthcare sector. The credit facility provided for a maximum \$8,000 revolving line of credit based on the Company's eligible accounts receivable. The annual interest rate was equal to the 90 day term SOFR rate plus 5.5%. The line of credit would terminate one year from closing and unused line fees and early prepayment penalties would apply. We repaid this loan in July 2023 using proceeds from the Labcorp transaction and paid a \$240 prepayment penalty recorded to Interest expense in the Consolidated Statements of Operations.

Note 10 - Long term debt

In connection with the purchase of a building in Farmingdale, NY in November 2018, a wholly-owned subsidiary (the "mortgagor subsidiary") of the Company entered into a Fee Mortgage and Security Agreement (the "mortgage agreement") with Citibank, N.A. (the "mortgagee"). The mortgage agreement provided for a loan of \$4,500 for a term of 10 years, bore a fixed interest rate of 5.09% per annum and required monthly mortgage payments of principal and interest of \$30. The Company's obligations under the mortgage agreement were secured by the building and by a \$1,000 cash collateral deposit with the mortgagee as additional security. In July 2023, we repaid in full the mortgage balance of \$3,834 without prepayment penalty. The cash collateral deposit was released in August 2023 and the \$1,000 collateral deposit is included in prepaid and other assets as of July 31, 2023.

At July 31, 2022, the balance owed by the subsidiary under the mortgage agreement was \$3,980. The restricted cash of \$1,000 was included in other assets as of July 31, 2022.

In April 2020, our subsidiary in Switzerland received a loan of CHF 400 (or \$400, based on the foreign exchange rate as of July 31, 2020) from the Swiss government under the "Corona Krise" emergency loan program in response to the COVID-19 pandemic. This loan is uncollateralized and bears 0% interest. In January 2022, the bank agent of the Swiss government informed our subsidiary that the loan had to be fully amortized within a maximum of eight years and that the first of semiannual amortization payments of CHF 33 would begin in March 2022. In March 2022, the subsidiary made its first semi-annual principal repayment of CHF 33 (or \$35 based on exchange rates). Based on this amortization schedule, the loan will be repaid by September 2027. The current portion of this loan is included in other current liabilities and the long term portion in long term debt – net as of July 31, 2023 and 2022.

Minimum future annual principal payments under this agreement as of July 31, 2023 are as follows:

July 31,	 Total
2024	\$ 77
2025	77
2026	77
2027	76
2028	37
Total principal payments	344
Less: current portion, included in other current liabilities	(75)
Long term debt – net	\$ 269

(Dollars in thousands except share data)

The CARES Act expanded the U.S. Small Business Administration's (SBA) business loan program to create the Paycheck Protection Program (PPP), which provided employers with uncollateralized loans whose primary purpose is to retain or maintain workforce and salaries for a twenty-four week period ("covered period") following receipt of the loan. The primary features of the PPP loan program are to provide funding to companies to cover eligible expenses, and the potential for forgiveness of that portion of the loan spent on payroll and other permitted operating expenses during the covered period, subject to reductions if the borrower fails to maintain or restore employee and salary levels. We applied for the PPP loan based on the eligibility and need requirements established when the program was announced and in April 2020 received \$7,000 through Citibank N.A., the Company's existing lender, pursuant to the PPP (the "PPP Loan"). We accrued no interest on the loan. In June 2021, the SBA approved in full our request for loan forgiveness and we recognized the forgiveness of the \$7,000 loan in fiscal year 2021. The SBA announced its intention to audit loans in excess of \$2,000 and in June 2022 requested through Citibank N.A. the production of documents and information related to our loan and our request for forgiveness. We provided that information to the SBA via Citibank N.A. In October 2023, the SBA informed the Company that it closed its review of our loan forgiveness with no findings.

Note 11 - Leases

The Company determines if an arrangement is or contains a lease at contract inception. The Company leases buildings, office space, patient service centers, and equipment through operating leases. Generally, a right-of-use asset, representing the right to use the underlying asset during the lease term, and a lease liability, representing the payment obligation arising from the lease, are recognized on the balance sheet at lease commencement based on the present value of the payment obligation. For operating leases, expense is recognized on a straight-line basis over the lease term. Short-term leases with an initial term of 12 months or less are not recorded on the balance sheet; the Company recognizes lease expense for these leases on a straight-line basis over the lease term. The Company primarily uses its incremental borrowing rate in determining the present value of lease payments as the Company's leases generally do not provide an implicit rate.

The Company has lease agreements with (i) right-of-use asset payments and (ii) non-lease components (e.g. payments related to maintenance fees, utilities, etc.) which have generally been combined and accounted for as a single lease component. The Company's leases have remaining terms of less than 1 year to 4 years, some of which include options to extend the leases for up to 3 years. The Company's lease terms may include renewal options that are reasonably certain to be exercised and termination options that are reasonably certain not to be exercised.

Certain of the Company's lease agreements include rental payments adjusted periodically for inflation or a market rate which are included in the lease liabilities.

Leases	Balance Sheet Classification	July 31, 2023		July 31, 2022	
Assets					
Operating	Right-of-use assets	\$	3,626	\$	4,384
Total lease assets		\$	3,626	\$	4,384
Liabilities					
Current:					
Operating	Current portion of operating lease liabilities	\$	980	\$	896
Non-current:					
Operating	Operating lease liabilities, non-current		3,160		4,053
Total lease liabilities		\$	4,140	\$	4,949

(Dollars in thousands except share data)

For the years ended July 31, components of lease cost were as follows:

Lease Cost	2023		2022	
Operating lease cost – net (a)	\$ 689	\$	1,108	

(a) Net of \$378 sublease income for the year ended July 31, 2023.

The maturity of the Company's lease liabilities as of July 31, 2023 is as follows:

Maturity of lease liabilities, years ending July 31,	 leases
2024	\$ 1,156
2025	895
2026	886
2027	881
2028	 808
Total lease payments	4,626
Less: Interest (a)	(486)
Present value of lease liabilities	\$ 4,140

(a) Primarily calculated using the Company's incremental borrowing rate.

Lease term and discount rate for the years ended July 31 were as follows:

Lease term and discount rate	2023	2022
Weighted-average remaining lease term (years):		
Operating leases	3.9 years	4.9 years
Weighted-average discount rate:		
Operating leases	5.1%	5.1%

See Note 5 for cash flow information on cash paid for amounts included in the measurement of lease liabilities for the years ended July 31, 2023 and 2022.

Note 12 - Accrued Liabilities

At July 31, accrued liabilities consist of:

	2023		2022
Payroll, benefits and commissions	\$	7,421	\$ 2,371
Professional fees		610	594
Legal		2,248	4,523
Other		1,464	691
	\$	11,743	\$ 8,179

(Dollars in thousands except share data)

Self-Insured Medical Plan

The Company self-funds medical insurance coverage for certain of its U.S. based employees. The risk to the Company is believed to be limited through the use of individual and aggregate stop loss insurance. As of July 31, 2023 and 2022, the Company had established reserves of \$631 and \$260 respectively, which are included in accrued liabilities for payroll, benefits and commissions, for claims that have been reported but not paid and for claims that have been incurred but not reported. The reserve is based upon the Company's historical payment trends, claim history and current estimates.

Note 13 - Other current liabilities

At July 31, other current liabilities consist of:

	2023	2022
Current portion of mortgage loan		159
Current portion of Swiss government loan	75	70
	\$ 75	\$ 229

Note 14 - Stockholders' equity

Controlled Equity Offering

In May 2023, the Company entered into a sales agreement (the "Sales Agreement") with B. Riley Securities, Inc. as sales agent ("Riley"). Under the Sales Agreement, the Company may offer and sell, from time to time, through Riley, shares of the Company's common stock, par value \$0.01 per share ("Shares") having an aggregate offering price of up to \$30 million. The Company pays Riley a commission of 3.0% of the aggregate gross proceeds received under the Sale Agreement. The Company is not obligated to make any sales of Shares under the Sales Agreement. The offering of Shares pursuant to the Sales Agreement will terminate upon the earlier of (a) the sale of all of the Shares subject to the Sales Agreement or (b) the termination of the Sales Agreement by Riley or the Company, as permitted therein. In May 2023, the Company filed with the SEC a "shelf" registration and sales agreement prospectus covering the Sales Agreement. A total of \$150 million of securities, including those covered by the Sales Agreement, may be sold under the shelf registration which was declared effective in July 2023. During the fourth quarter of the fiscal year ended July 31, 2023, the Company sold 276,479 shares for net proceeds of \$386.

Common stock issuances

In fiscal 2023, the Company issued 843,100 shares of common stock pursuant to its employees' 401(k) matching contribution obligation of \$1,079. In fiscal 2022, the Company issued 237,383 shares of common stock pursuant to its employees' 401(k) matching contribution obligation of \$814.

(Dollars in thousands except share data)

Incentive stock plans

In January 2011, the Company's stockholders approved the adoption of the 2011 Incentive Plan (the "2011 Plan") for the issuance of equity awards, including, among others, options, restricted stock, restricted stock units and performance stock units for up to 3,000,000 shares of common stock. In January 2018, the Company's stockholders approved the amendment and restatement of the 2011 Plan (the "Amended and Restated 2011 Plan") to increase the number of shares of common stock available for grant under the 2011 Plan by 2,000,000 shares of common stock bringing the total number of shares available for grant to 5,000,000 shares of common stock. On October 7, 2020, the Company's Board of Directors approved the amendment and restatement of the Amended and Restated 2011 Plan, with an effective date of October 7, 2020 and subject to approval by the Company's stockholders at the 2020 annual meeting of stockholders of the Company. The amendment and restatement of the Amended and Restated 2011 Plan was for purposes of, among other things, (i) increasing the shares of common stock available for grant under the Amended and Restated 2011 Plan by an additional 4,000,000 shares of common stock bringing the total number of shares available for grant to 9,000,000 shares of common stock and (ii) extending the term of the Amended and Restated 2011 Plan until October 7, 2030. In January 2021, the Company's stockholders approved the amendment and restatement of the Amended and Restated 2011 Plan.

The exercise price of options granted under the Amended and Restated 2011 Plan, as amended and restated, is equal to or greater than fair market value of the common stock on the date of grant. The Amended and Restated 2011 Plan, as amended and restated, will terminate at the earliest of (a) such time as no shares of common stock remain available for issuance under the plan, (b) termination of the plan by the Company's Board of Directors, or (c) October 7, 2030. Awards outstanding upon expiration of the Amended and Restated 2011 Plan, as amended and restated, will remain in effect until they have been exercised or terminated, or have expired. As of July 31, 2023, there were approximately 4,014,000 shares of common stock available for grant under the Amended and Restated 2011 Plan, as amended and restated.

The Company estimates the fair value of each stock option award on the measurement date using a Black-Scholes option pricing model or the fair value of our stock at the date of grant. The fair value of awards is amortized to expense on a straight-line basis over the requisite service period. The Company expenses restricted stock awards based on vesting requirements, primarily time elapsed. Performance stock awards are not recognized until it is probable they will be earned. At such time, their expense is then recognized over the requisite service period, including that portion of the service period already elapsed.

Effective November 8, 2021, the Company granted equity awards to its CEO comprised of options to purchase 700,000 shares of common stock of the Company and restricted stock units (RSUs) for 260,000 shares of the common stock of the Company.

Options granted pursuant to the plans may be either incentive stock options or non-statutory options. The 2011 Plan provides for the issuance of stock options, restricted stock and restricted stock unit awards which generally vest over a two or three year period. A summary of the option activity pursuant to the Company's stock option plan for the years ended July 31, 2023 and 2022:

	2023			202		
	Weighted - Average Exercise			0.4		Weighted - Average Exercise
	Options		Price	Options		Price
Outstanding at beginning of year	3,941,783	\$	3.00	2,504,563	\$	3.74
New Grants	640,000	\$	2.01	1,858,250	\$	2.88
Exercised	(6,667)	\$	2.14	(11,300)	\$	2.49
Expired or forfeited	(745,616)	\$	4.15	(409,730)	\$	7.00
Outstanding at end of year	3,829,500	\$	2.61	3,941,783	\$	3.00
Exercisable at end of year	2,195,867	\$	2.65	1,794,399	\$	3.14
Weighted average fair value of options granted during year		\$	1.03		\$	1.52

(Dollars in thousands except share data)

The intrinsic value of stock option awards represents the value of the Company's closing stock price on the last trading day of the fiscal year in excess of the exercise price multiplied by the number of options that are outstanding. Total intrinsic value of outstanding options that were exercisable at July 31, 2023 and 2022 was \$0 and \$68, respectively. The intrinsic value of options outstanding at July 31, 2023 and 2022 was \$0 and \$193, respectively. The intrinsic value of the options exercised in fiscal 2023 and 2022 was \$3 and \$4, respectively.

Listed below are the assumptions used to determine the fair value of options granted during fiscal years 2023 and 2022:

					FMV of			
		Exercise		Vesting	options			
	Options	Price	Term	Period	Granted/Per	Expected	Expected	Interest
Grant Year	Granted	Range	(years)	(years)	Share	Life (years)	Volatility %	Rate %
2023	640,000	\$ 1.97 - \$2.42	5	3	\$ 1.07 - \$1.28	3.5	73.44 - 73.77	3.03 - 4.10
2022	1,858,250	\$ 2.21 - \$3.64	5	3	\$ 1.17 - \$1.78	3.5	73.25 - 74.52	1.73 - 3.03

The following table summarizes information for stock options outstanding at July 31, 2023:

Range of Exercise prices	Shares	Average Remaining Contractual Life in Years	Weighted- Average Exercise Price
\$1.97 - \$2.42	1,757,333	3.5	\$ 2.14
\$2.63 - \$2.80	1,131,917	1.4	\$ 2.72
\$2.93 - \$3.39	940,250	3.3	\$ 3.34
	3,829,500		

Weighted

The following table summarizes information for stock options exercisable at July 31, 2023:

Range of Exercise prices	Shares	Weighted- Average Remaining Contractual Life in Years	Av	ighted- erage ise Price
\$1.97 - \$2.42	728,833	2.6	\$	2.20
\$2.63 - \$2.80	1,113,450	1.3	\$	2.72
\$2.93 - \$3.39	353,583	3.3	\$	3.34
	2,195,867			

(Dollars in thousands except share data)

Restricted Stock Units

During fiscal year 2023, the Company awarded to its CEO 100,000 RSUs which cliff vest annually over three years whose fair market value was \$197 at the time of grant. During fiscal year 2023, the Company awarded to its 3 independent directors 225,564 RSUs which vest over one year whose fair market value was \$300. During fiscal year 2023, the Company recognized share based compensation expense of \$918 for all RSUs.

In November 2021, 260,000 RSUs were awarded to our CEO which vest over three years on the anniversary of his hiring. The fair market value of these RSUs at the date of grant was \$881. The Company awarded to its 3 independent directors 117,189 RSUs in April 2022 which cliff vest annually over two years whose fair market value was \$300. In July 2022, the Company awarded to its 3 independent directors 124,998 RSUs which vest in one year and whose fair market value was \$300. During fiscal year 2022, the Company recognized shared based compensation expense of \$295 for these RSUs.

The following table summarizes RSU activity for the fiscal year ended July 31, 2023:

	Number of RSUs outstanding	A	Weighted Everage Fair Value per Unit at Date of Grant or Vesting	Weighted Average Remaining Contractual Term	Aggregat Intrinsic Value (000	
Outstanding at beginning of fiscal year	502,187	\$	2.95	0.8 years	1	,190
Granted	325,564	\$	1.53			497
Vested	(270,261)	\$	1.64			
Cancelled	_	\$				
Outstanding at end of period	557,490	\$	2.21	1.1 years	\$	825
Expected to vest at end of period	557,490	\$	2.21	1.1 years	\$	825

Certain directors had not taken their vested RSU shares, totaling 144,530, as of July 31, 2023. As of July 31, 2023, there was \$2,855 of total unrecognized compensation cost related to non-vested share-based payment arrangements granted under the Company's 2011 Incentive Plan, which will be recognized over a weighted average remaining life of approximately one and a half years.

The following table summarizes RSU activity for the fiscal year ended July 31, 2022:

		A	Weighted Werage Fair			
	Number of RSUs outstanding		Value per Unit at Date of Grant or Vesting	Weighted Average Remaining Contractual Term	In	gregate trinsic ie (000s)
Granted	502,187	\$			' <u>'</u>	
Vested	_		_			
Cancelled		\$	_			
Outstanding at end of period	502,187	\$	2.95	1.8 years	\$	1,190
Expected to vest at end of period	502,187	\$	2.95	1.8 years	\$	1,190

(Dollars in thousands except share data)

Performance Stock Units

To better align the long-term interest of executives with growing U.S. practices, beginning in fiscal 2018, the Company granted long-term incentive awards in the form of time based stock options and performance-based restricted stock units ("Performance Stock Units" or "PSUs"). The PSUs earned will be determined over a three-year performance period. The primary performance metrics will be revenue and Adjusted EBITDA growth. Payouts are based on revenue and adjusted EBITDA goals met at threshold, target or maximum levels and will be modified based on Total Shareholder Return ("TSR") performance relative to Enzo's peer group. The PSUs awarded to executive officers in fiscal year 2018 expired in fiscal year 2021 as the 3 year growth goals were not achieved.

During the fiscal years ended 2020 and 2019, the Company awarded additional PSUs to its executive officers. These awards provide for the grant of shares of our common stock at the end of a three-year period based on the achievement of revenue growth and adjusted EBITDA growth goals met at threshold, target or maximum levels over the respective period.

For the fiscal year ended July 31, 2023, the Company reversed net total PSU accruals of \$82 for former officers who forfeited 28,300 PSUs from the fiscal 2020 award, resulting in net PSU compensation expense of \$2. For the fiscal year ended July 31, 2022, the Company reversed net total PSU accruals of \$124 for a former officer who forfeited 25,300 and 20,000 PSUs from the fiscal year 2020 and fiscal year 2019 awards, respectively, resulting in net PSU compensation expense of \$70.

During the fiscal year ended July 31, 2023, the Company issued 25,200 shares for awards made in fiscal year 2019 and vested at the end of fiscal 2022.

The following table summarizes PSU's granted and outstanding through July 31, 2023:

				rair Market
				Value At
				Grant Date
Grant Date	Total Grant	Forfeitures	Outstanding	(000s)
10/19/2020	98,600	(53,600)	45,000	\$ 95

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Note 15 - Employee benefit plans

The Company has a qualified Salary Reduction Profit Sharing Plan (the "Plan") for eligible U.S. employees under Section 401(k) of the Internal Revenue Code. The Plan provides for voluntary employee contributions through salary reduction and voluntary employer contributions at the discretion of the Company. For the year ended July 31, 2023, the Company authorized employer matched contributions of 50% of the employees' contribution of the employees' compensation, payable in Enzo Biochem, Inc. common stock. For the year ended July 31, 2022, the Company authorized employer matched contributions of 50% of the employees' contribution up to 10% of the employees' compensation, payable in Enzo Biochem, Inc. common stock.

The share-based 401(k) employer matched contribution was approximately \$1,079 and \$814 in fiscal years 2023 and 2022, respectively. As of July 31, 2023 and 2022, the Company accrued a total of \$263 and \$140, respectively in 401(k) matching contribution obligations within the Accrued liabilities account.

The Company's Swiss operations provide a pension plan named the Enzo Life Sciences (ELS) AG Vertrag - Nr. 2/401144, (the "Swiss Plan") under the Swiss government's social security system for Swiss employees. The current required minimum saving contribution is 13% for employees over age 25 and minimum annual investment return is 1.00%. Employees are required to contribute based on a formula and the Company's Swiss operations make contributions of at least 40% of the employee contribution. The status of the Swiss Plan, which is substantially funded as of December 31, 2022, the latest plan year end, is as follows:

(Dollars in thousands except share data)

As of December 31,		2022	2021
Total Assets	\$	2,780	\$ 2,667
Accumulated Benefit Obligation	\$	2,780	\$ 2,760
Funded status	'	100%	97%
Fiscal Year ended July 31,	_	2022	 2021
Employer contributions	\$	182	\$ 144

The contract for the Swiss Plan automatically renews on its annual anniversary unless notice of termination is provided three months prior. The current contract will automatically renew on December 31, 2023. Currently, the Company has no plans to change the current funding or plan design. No events have occurred that would impact the Swiss Plan status.

Note 16 - Commitments

Leases

A related party entity owned by a director and a former executive officer of the Company owns the building that the Company leases as its main facility for the discontinued operations. In addition to the minimum annual rentals of space, the lease is subject to annual increases, based on the consumer price index. Annual increases are limited to 3% per year. Rent expense for this lease, inclusive of real estate taxes, approximated \$1,937 and \$1,867 during fiscal years 2023 and 2022, respectively.

Note 17 - Contingencies

In April 2023, the Company experienced a ransomware attack that impacted certain critical information technology systems. In response, we promptly deployed containment measures, including disconnecting our systems from the internet, launching an investigation with assistance from third-party cybersecurity experts, and notifying law enforcement. We adhered to our disaster recovery plan, which enabled us to maintain operations throughout the incident response process. We are in the process of evaluating the full scope of the costs and related impacts of this incident. The Company's facilities remained open, and we continued to provide services to patients and partners. We later became aware that certain data, including names, test information, and Social Security numbers, was accessed, and in some instances, exfiltrated from the Company's information technology systems as part of this incident. The investigation identified unauthorized access to or acquisition of clinical test information of approximately 2,470,000 individuals. The Social Security numbers of approximately 600,000 of these individuals may also have been involved. Additionally, the Company has determined that some employees' information may have been involved, as well as to regulatory authorities, in accordance with applicable law.

Enzo Biochem is currently subject to regulatory inquiry from the New York Attorney General and a joint inquiry from the Connecticut and New Jersey Attorneys General. Both inquiries ask questions about the ransomware incident, as well as the corrective actions taken in response. It is not known at this time whether the Attorneys General will seek penalty against the Company. We are unable to evaluate the likelihood of an outcome, favorable or unfavorable, to the Company or to estimate the amount or range of any potential liability, if any, at this time.

(Dollars in thousands except share data)

There is also pending Class Action litigation:

In re Enzo Biochem Data Breach Litigation, No. 2:23-cv-04282 (EDNY)

In the Eastern District of New York twenty putative class actions have been consolidated alleging various harms stemming from the April 2023 data incident. Interim lead counsel has been appointed and a consolidated complaint is due to be filed on November 13, 2023. The complaints seek to certify a federal class as well as several state subclasses. Based on the individual complaints that were filed, we expect the consolidated complaint to bring various statutory and common law claims including negligence, negligence per se, breach of fiduciary duty, breach of implied contract, breach of the implied covenant of good faith and fair dealing, violation of the New York's General Business Law § 349, Invasion of Privacy, violations of the Connecticut Unfair Trade Practices Act, violations of the New Jersey Consumer Fraud Act.

Maria Sgambati et al., v. Enzo Biochem, Inc., et al., Index No. 619511/2023 (N.Y. Sup. Ct.)

This is a putative class action pending in state court alleging various harms stemming from the April 2023 data incident. The complaint seeks to certify a class of New York residents. The complaint brings claims of negligence; negligence *per se*; breach of implied covenant and good faith and fair dealing; breach of duty; breach of implied contract; and violations of New York's Deceptive Acts and Practices § 349. We have filed a motion to stay this action pending the resolution of the Federal Action and the motion remains pending.

Louis v. Enzo Biochem, Inc. et al., Index No. 653281/2023 (N.Y. Sup. Ct.)

This is a putative class action pending in state court alleging various harms stemming from the April 2023 data incident. The complaint seeks to certify a class of New York citizens. The complaint brings claims of for negligence; negligence *per se*; breach of duty, breach of implied contract; breach of implied covenant of good faith and fair dealing; and violations of New York's Deceptive Acts and Practices § 349. We have filed a motion to stay this action pending the resolution of the Federal Action and the motion remains pending.

A provision has been made in the financial statements for a financial contingency for the above matters based on a reasonable estimate; however, the actual exposure may differ

On or about March 2, 2023, a verified complaint was filed in the Supreme Court of the State of New York, New York County captioned Elazar Rabbani v. Mary Tagliaferri, et al., Index No. 651120/2023. The verified complaint purports to assert causes of action for breach of fiduciary duty and corporate waste under N.Y.B.C.L. § 720, and also seeks an accounting and certain injunctive relief. Plaintiff served a copy of the verified complaint on Enzo's agent for service in New York on or about March 13, 2023. On August 4, 2023, defendants moved to dismiss all of the causes of action asserted in the verified complaint. Plaintiff filed an amended complaint on or about October 4, 2023, adding, among other things, an additional cause of action for violation of N.Y.B.C.L. § 626. On October 23, 2023, Defendants filed a reply in further support of their motion to dismiss. On October 24, 2023, Plaintiff sought leave to file an opposition brief. Defendants filed an opposition to that request on October 26, 2023. On October 31, 2023, in response to a question from the Court's law clerk, Defendants reiterated that they had elected to apply their original motion to dismiss to the amended pleading. That same day, Plaintiff indicated his intent to file an opposition to that motion on or before November 6, 2023. The Company cannot predict the outcome of this matter.

The Company has brought cases in the United States District Court for the District of Delaware ("the Court"), alleging patent infringement against various companies. In 2017, the Court ruled that the asserted claims of the '180 and '405 Patents are invalid for nonenablement in cases involving Abbott, Becton Dickinson, Gen-Probe, Hologic, and Roche. That ruling was affirmed by the United States Court of Appeals for the Federal Circuit ("Federal Circuit") in June 2019. Enzo subsequently filed a petition for certiorari regarding the invalidity ruling for the '180 and '405 Patents in February 2020; the Supreme Court denied Enzo's petition on March 30, 2020.

ENZO BIOCHEM, INC. NOTES TO CONSOLIDATED FINANCIAL STATEMENTS July 31, 2023

(Dollars in thousands except share data)

The Company, along with its subsidiary Enzo Life Sciences, Inc., resolved its claims against Roche regarding the '197 Patent before the Court (civil action No. 12 cv-00106) in July 2022. There is currently one case that was originally brought by the Company that is still pending in the Court. In that case, Enzo alleges patent infringement of the '197 patent against Becton Dickinson Defendants. The claims in that case are stayed.

In separate inter partes review proceedings before the U.S. Patent and Trademark Office (PTO) involving, among others, Becton Dickinson, certain claims of the '197 Patent were found unpatentable as anticipated or obvious and cancelled by the Patent Trial and Appeals Board ("Board"). Enzo appealed that decision to the Federal Circuit. On August 16, 2019, the Federal Circuit affirmed the Board's decision, finding that each of the challenged claims is unpatentable. The Company filed a petition for rehearing and rehearing en banc on October 30, 2019, which the Federal Circuit denied on December 4, 2019. The Company filed a petition for certiorari with the Supreme Court on March 3, 2020, which was denied.

In April 2019, the Company entered into an agreement with Hologic and Grifols, resolving litigation resulting from four cases originally brought by the Company in the Court. As a result, Enzo dismissed (1) a stayed patent litigation regarding the '180 and '197 Patent against Hologic in the Court; (2) the Consolidated Appeals against Gen-Probe and Hologic resulting from two cases filed in the Court, and (3) the Company's appeal in the litigation involving the '581 Patent that involved both Hologic and Grifols. As a result of the agreement with Hologic, Hologic withdrew from Enzo's Federal Circuit appeal of the Board's adverse rulings in the *inter partes* review proceedings regarding the '197 Patent filed by Hologic and joined by Becton Dickinson mentioned above.

On September 2, 2021, the PTO issued a non-final office action in an *ex parte* reexamination concerning the '197 Patent. In the office action, the PTO rejected certain claims of the '197 Patent under 35 U.S.C. §§ 102 and 103, and for nonstatutory double-patenting. Enzo responded to the office action on January 3, 2022, and the proceeding remains pending. Becton Dickinson requested another *ex parte* reexamination concerning the '197 patent on July 26, 2022. On September 16, 2022, the PTO ordered that *ex parte* reexamination as to certain claims of the '197 patent and has not yet issued an office action. Enzo filed a petition to terminate that second reexamination proceeding on November 16, 2022.

On November 27, 2020, the Company brought an action in the United States District Court for the Southern District of New York against Harbert Discovery Fund, LP, Harbert Discovery Co-Investment Fund I, LP, Harbert Fund Advisors, Inc., Harbert Management Corp. and Kenan Lucas (together, "Harbert"). The Company alleged Harbert made false and misleading representations, or omitted to state material facts necessary to make their statements not misleading, in proxy materials they disseminated seeking the election to the Company's Board of Directors at its 2019 Annual Meeting of two candidates they nominated, in violation of Section 14(a) of the 1934 Exchange Act and Rule 14a-9 thereunder. The Company sought damages and injunctive relief. On October 12, 2021, HDF filed five counterclaims against the Company and present and former directors Dr. Elazar Rabbani, Barry W. Weiner, Dr. Bruce A. Hanna, Dov Perlysky, Rebeca Fischer, Dr. Mary Tagliaferri and Dr. Ian B. Walters. HDF claimed the Company made false and misleading representations in proxy materials it disseminated in connection with its 2019 Annual Meeting, in violation of Section 14(a) of the 1934 Exchange Act and Rule 14a-9 thereunder, and that the Company's directors at that time were liable under Section 20(a) of the Exchange Act for the Company's purported misstatements. HDF also claimed that current and former Company directors breached their fiduciary duties by taking four corporate actions: (a) adjourning the 2019 meeting for 25 days; (b) purportedly causing the two Harbert candidates for director, who were elected at the 2019 Meeting, to resign in November 2020; (c) authorizing the November 27, 2020 Lawsuit; and (d) not accepting Dr. Rabbani's resignation as a director in March 2021. On November 10, 2021, the Company and the other counterclaim defendants moved to dismiss HDF's counterclaims. On December 9, 2021, the court granted the motion to dismiss HDF's counterclaims except HDF's Section 14(a) claim against the Company concerning its statement that it intended to "delay" the 2019 Annual Meeting, and HDF's Section 20(a) and breach of fiduciary duty counterclaims against Dr. Elazar Rabbani, Barry W. Weiner, Dr. Bruce Hanna, Dov Perlysky and Rebecca Fischer with respect to that statement. The Court allowed HDF to move for leave to replead with respect to its dismissed counterclaims. On June 7, 2022, the Court "so ordered" a stipulation of dismissal with prejudice of the Company's claims against Harbert Discovery Fund, LP, Harbert Discovery Co-Investment Fund I, LP, Harbert Fund Advisors, Inc., Harbert Management Corp., and Kenan Lucas, and HDF's counterclaims against the Company, Dr. Bruce Hanna, Dov Perlysky, Rebecca Fischer, Dr. Ian B. Walters and Dr. Mary Tagliaferri. The only remaining claims were HDF's counterclaims against Dr. Rabbani and Mr. Weiner. HDF asked the Court to dismiss those claims without prejudice. Dr. Rabbani and Mr. Weiner asked the Court to dismiss those counterclaims with prejudice and to allow them to take discovery from HDF, the Company, and possibly others. On December 1, 2022, the court granted HDF's motion for voluntary dismissal without prejudice, denied Dr. Rabbani and Mr. Weiner's motion to compel discovery, and directed the Clerk of the Court to close this case.

On or about September 26, 2023, James G. Wolf, Individually and as the Trustee of the Wolf Family Charitable Foundation, Barbaranne R. Wolf, Stephen Paul Wolf, and Preston M. Wolf initiated an appraisal action against Enzo Biochem, Inc. in the New York Supreme Court for Suffolk County. Petitioners seek an appraisal of the value of their shares in the Company. The amount of damages sought by the Petitioners is unspecified. The Company will defend itself vigorously in the appraisal action.

ENZO BIOCHEM, INC. NOTES TO CONSOLIDATED FINANCIAL STATEMENTS July 31, 2023

(Dollars in thousands except share data)

In our discontinued Clinical Labs operations, third-party payers, including government programs, may decide to deny payment or recoup payments for testing that they contend was improperly billed or not medically necessary, against their coverage determinations, or for which they believe they have otherwise overpaid (including as a result of their own error), and we may be required to refund payments that we received.

Former executives arbitration

The Company terminated the employment of Elazar Rabbani, Ph.D., the Company's former Chief Executive Officer, effective April 21, 2022. Dr. Rabbani remains a board director of the Company. Dr. Rabbani is a party to an employment agreement with the Company that entitles him to certain termination benefits, including severance pay, acceleration of vesting of share-based compensation, and continuation of benefits. Based on the terms of his employment agreement, the Company estimated and accrued a charge of \$2,600 in fiscal year 2022 which is included in Selling, general and administrative expenses. The charge was partially offset by the reversal of bonus accruals. In May 2022, the Company paid Dr. Rabbani \$2,123 in severance (the payment constituted taxable income but the Company did not withhold taxes from the payment). In July 2022, the Company paid Dr. Rabbani's income and other withholding taxes of \$1,024 related to that payment on Dr. Rabbani's behalf, which was included in "prepaid expense and other current assets" as of July 31, 2022, as the payment is reimbursable from Dr. Rabbani Dr. Rabbani disputed, among other things, the Company's decision to not award him a bonus for fiscal year 2021 and the amount of severance that was owed to him under his employment agreement. On July 8, 2022, the Company filed a demand for arbitration with the American Arbitration Association (the "AAA") seeking, among other things, a declaration that the Company has fully satisfied its contractual obligations to Dr. Rabbani and seeking the tax withholding reimbursement referenced above. On August 4, 2022, Dr. Rabbani filed counterclaims in the arbitration seeking, among other things, a bonus for fiscal year 2021 and additional severance that he asserts is owed to him. At the parties' joint request, the arbitration has been stayed while the parties work towards resolving the matter.

On February 25, 2022, Barry Weiner, the Company's co-founder and President, notified the Company that he was terminating his employment as President of the Company for "Good Reason" as defined in his employment agreement. The Company accepted Mr. Weiner's termination, effective April 19, 2022, but disagreed with Mr. Weiner's assertion regarding "Good Reason." On October 24, 2023, the Company and Mr. Weiner reached an agreement resolving the dispute.

A provision has been made in the financial statements for these matters based on a reasonable estimate; however, the actual exposure may differ.

Note 18 - Segment reporting

The Company has one reportable segment, Products, which develops, manufactures, and markets products to research and pharmaceutical customers. The Company evaluates segment performance based on segment income (loss) before taxes. Costs excluded from segment income (loss) before taxes and reported as "Corporate & Other" consist of corporate general and administrative costs which are not allocable to the Products segment.

Legal and related expenses incurred to defend the Company's intellectual property, which may result in settlements recognized in another segment and other general corporate matters are considered a component of the Corporate & Other segment. Legal and related expenses specific to the Products' segment's activities are allocated to that segment.

Legal settlements, net, represent activities for which royalties would have been received in the Company's Products segment. Management of the Company assesses assets on a consolidated basis only and therefore, assets by reportable segment have not been included in the reportable segments below. The accounting policies of the reportable segment are the same as those described in the summary of significant accounting policies.

ENZO BIOCHEM, INC. NOTES TO CONSOLIDATED FINANCIAL STATEMENTS July 31, 2023 (Dollars in thousands except share data)

The following financial information represents the operating results of the reportable segments of the Company:

Year ended July 31, 2023

	р	roducts		Corporate & Other		Consolidated	
Revenues – Products	\$	31,061		<u> </u>	\$	31,061	
Operating costs and expenses:							
Cost of revenues		17,866		_		17,866	
Costs of revenues – inventory provision		1,629		_		1,629	
Research and development		3,864		40		3,904	
Selling, general and administrative		12,302	\$	14,900		27,202	
Legal and related expenses		73		5,123		5,196	
Total operating costs and expenses		35,734		20,063		55,797	
Operating loss		(4,673)		(20,063)		(24,736)	
Other income (expense)							
Interest		118		(1,240)		(1,122)	
Change in fair value of convertible debentures		_		(824)		(824)	
Other		7		373		380	
Foreign exchange gain		1,280		_		1,280	
Loss before taxes	\$	(3,268)	\$	(21,754)	\$	(25,022)	
Depreciation and amortization included above	¢	687	\$	365	\$	1,052	
	.	087	J.	303	Ф	1,032	
Share-based compensation included above:							
Selling, general and administrative		81		1,669		1,750	
Cost of sales		22		_		22	
Total	\$	103	\$	1,669	\$	1,772	
Capital expenditures	¢	1 604	¢.	650	ø.	2 244	
Capital Capatalates	\$	1,694	\$	650	\$	2,344	
F 32							

ENZO BIOCHEM, INC. NOTES TO CONSOLIDATED FINANCIAL STATEMENTS July 31, 2023 (Dollars in thousands except share data)

Year ended July 31, 2022

	Products			Corporate & Other		Consolidated	
Revenues – Services and Products	\$	32,643		_	\$	32,643	
Operating costs and expenses:							
Cost of revenues		19,213		_		19,213	
Research and development		2,383		55		2,438	
Selling, general and administrative		12,516	\$	10,568		23,084	
Legal and related expenses		186		5,249		5,435	
Legal settlements		(500)		_		(500)	
Total operating costs and expenses		33,798		15,872		49,670	
Operating loss		(1,155)		(15,872)		(17,027)	
Other income (expense)							
Interest		45		133		178	
Other		4		(1,272)		(1,268)	
Foreign exchange loss		(2,222)		_		(2,222)	
Loss before taxes	\$	(3,328)	\$	(17,011)	\$	(20,339)	
Depreciation and amortization included above	\$	813	\$	303	\$	1,116	
Share-based compensation included above:							
Selling, general and administrative		22		1,270		1,292	
Cost of sales		6		_		6	
Total	\$	28	\$	1,270	\$	1,298	
Capital expenditures	\$	1,915	\$	628	\$	2,543	
F 22							

ENZO BIOCHEM, INC

SCHEDULE II
VALUATION AND QUALIFYING ACCOUNTS
As of and for the Years ended July 31, 2023 and 2022
(in thousands)

Year ended July 31,	Description	Be	ance at ginning f Year	Charged (credited) to costs and expenses	Charged to other accounts	Ded	uctions	I	Balance at end of Year
2023	Allowance for doubtful accounts receivable	\$	161	\$ 9		\$	_	\$	170
2022	Allowance for doubtful accounts receivable		180	12			31(1)		161
2023	Deferred tax valuation allowance		34,610	(7,925)			_		26,685
2022	Deferred tax valuation allowance		29,874	4,736			_		34,610

⁽¹⁾ Write-off of uncollectible accounts receivable.

DESCRIPTION OF CAPITAL STOCK

General Matters

Pursuant to our Certificate of Incorporation, as amended, the total amount of our authorized capital stock is 100,000,000 shares, which consists of 75,000,000 shares of authorized common stock, par value \$0.01 per share, and 25,000,000 shares of authorized preferred stock, par value \$0.01 per share.

As of October 27, 2023, we had outstanding 50,489,771 shares of common stock and no shares of preferred stock. As of October 27, 2023 we had approximately 720 holders of record of our common stock.

The following summary of our capital stock does not purport to be complete and is subject to and qualified in its entirety by, our Certificate of Incorporation, as amended, and our Amended and Restated By-laws.

Common Stock

The holders of shares of common stock are entitled to one vote for each share held of record on all matters submitted to a vote of the stockholders. All shares of our common stock are entitled to share equally in any dividends our board of directors may declare from legally available sources. Our common stock is traded on the New York Stock Exchange under the symbol "ENZ". The transfer agent and registrar for our common stock is Equiniti.

Preferred Stock

Our board of directors has the authority, without further action by the stockholders, to issue shares of preferred stock in one or more series and to fix and determine the following terms of the preferred stock by resolution: variations in the designations, preferences, and relative, participating, optional or other special rights (including, without limitation, special voting rights, of conversion in common stock or other securities, redemption provisions or sinking fund provisions) as between series and between the preferred stock and any series thereof and the common stock, and the qualifications, limitations or restrictions of such rights, all as shall be stated in a resolution of the board of directors. Shares of preferred stock or any series thereof may have full or limited voting powers, or be without voting powers, all as shall be stated in a resolution of the board of directors.

Any or all of these rights may be greater than the rights of our common stock. Currently there is no issued and outstanding preferred stock.

AMENDMENT AGREEMENT

This Amendment Agreement ("Agreement"), dated as of October 4, 2023, is made by and between JGB Capital, LP, JGB Partners, LP and JGB (Cayman) Sussex Ltd. (collectively, the "Holders" and each a "Holder"), Enzo Biochem, Inc., a New York corporation (the "Company"), JGB Collateral LLC, a Delaware limited liability company (the "Agent"), as agent for the Holders, and Person executing this Agreement as "Guarantor".

WHEREAS, the Holder and the Company entered into a Securities Purchase Agreement dated as of May 19, 2023 (as the same may be amended, amended and restated, supplemented or otherwise modified from time to time in accordance with its provisions, the "Purchase Agreement"), whereby the Company issued to the Holders, and the Holders acquired from the Company, 10% Original Issue Discount Senior Secured Debentures, in the aggregate original principal amount of \$7,608,696 (as the same may be amended, amended and restated, supplemented or otherwise modified from time to time in accordance with their provisions collectively, the "Debentures" and each a "Debenture"); and

WHEREAS, the Holders, the Agent and the Company desire to amend certain terms of the Purchase Agreement as provided herein.

NOW, THEREFORE, in consideration of the premises set forth above and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

- 1. <u>Definitions</u>. Capitalized terms used and not defined in this Agreement shall have the respective meanings given such terms in the Purchase Agreement or the Debentures, as applicable.
- 2. Reconfirmation of Subsidiary Guaranty. Each Guarantor acknowledges this Agreement and ratifies and confirms that the Subsidiary Guarantee executed by such Guarantor is not released, diminished, impaired, reduced, or otherwise adversely affected by this Agreement and continues to guarantee and assure the full payment and performance of all present and future obligations under the Debentures (as amended by this Agreement) and the other Transaction Documents.
- 3. Amendment to the Purchase Agreement. Effective as of the date hereof, the parties amend the Purchase Agreement as follows:
- (a) Section 1.1 of the Purchase Agreement is hereby amended by deleting the definition of "2nd Lien Mortgage" in its entirety and striking the reference to "the 2nd Lien Mortgage" in the definitions of "Security Documents" and "Transaction Documents".

- (b) Section 2.4 of the Purchase Agreement is amended and restated in its entirety by replacing such Section 2.4 with the following:
 - "2.4 Intentionally Omitted."
- 4. Amendment to the Transaction Documents. Effective as of May 19, 2023, the parties amend the Transaction Documents as follows:
 - (a) All references, if any, to "Enzo Life Sciences (ELS) AG" are deleted in their entirety.
- 5. Reimbursement of Expense Advance. Within five (5) Business Days after the execution of this Agreement, the Holders will refund \$56,792.06 advanced to the Holders to cover their costs and expenses in connection with the Transaction Documents.
- 6. <u>Transaction Documents</u>. This Agreement is a Transaction Document. In addition, all references in the Transaction Documents to the Purchase Agreement shall be deemed to mean the Debentures as amended by this Agreement. This Agreement, together with the Transaction Documents, are the entire agreement among the parties with respect to the subject matter hereof.
- 7. No Modification. Except as expressly set forth in Sections 3 and 4 of this Agreement, nothing contained in this Agreement shall be deemed or construed to, and does not, amend, supplement or modify the Debentures or the other Transaction Documents or otherwise affect the rights, remedies and/or obligations of any party thereto, all of which remain in full force and effect.
- 8. <u>Successors and Assigns; Survival</u>. This Agreement shall inure to the benefit of and be binding upon each of the parties hereto, and each of their respective successors and assigns. The representations and warranties of the Company and the Guarantors shall survive the consummation of the transactions contemplated by this Agreement.
- 9. Governing Law. This Agreement shall be governed by, and construed in accordance with, the laws of the State of New York. The parties agree that the state and federal courts located in New York County, New York shall have exclusive jurisdiction over any action, proceeding or dispute arising out of this Agreement and the parties submit to the personal jurisdiction of such courts.
- 10. Counterparts. This Agreement may be executed in any number of counterparts, all of which shall constitute one and the same agreement, and any party hereto may execute this Agreement by signing and delivering one or more counterparts. Delivery of an executed counterpart of this Agreement electronically or by facsimile shall be effective as delivery of an original executed counterpart of this Agreement.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOPF, the parties hereto have executed this Agreement as of the date first above written.

Enzo Bioghem, Inc., as the Company

/s/ Patricia Eckert

Name: Patricia Eckert Title: Interim CFO

By

Enzo Realty LLC, as Guarantor

By /s/ Patricia Eckert
Name: Patricia Eckert
Title: Interim CFO

Enzo Clinical Labs, Inc., as Guarantor

By /s/ Patricia Eckert
Name: Patricia Eckert
Title: Interim CFO

JGB Capital, LP, as Holder

By /s/ Brett Cohen
Name: Brett Cohen
Title: President

JGB Collateral LLC, as Agent

By /s/ Brett Cohen

Name: Brett Cohen
Title: President

Enzo Therapeutics, Inc., as Guarantor

By /s/ Patricia Eckert

Name: Patricia Eckert Title: Interim CFO

Enzo Realty II LLC, as Guarantor

By /s/ Patricia Eckert
Name: Patricia Eckert
Title: Interim CFO

Enzo Life Sciences, Inc., as Guarantor

By /s/ Patricia Eckert
Name: Patricia Eckert
Title: Interim CFO

JGB (Cayman) Sussex Ltd., as Holder

By /s/ Brett Cohen
Name: Brett Cohen
Title: President

JGB Partners, LP, as Holder

By /s/ Brett Cohen
Name: Brett Cohen
Title: President

SEPARATION AGREEMENT AND GENERAL RELEASE

This Separation Agreement and General Release ("Agreement") by and between Hamid Erfanian ("Executive" or "you") and Enzo Biochem, Inc. (the "Company") on behalf of itself and its past and/or present parent entities, and its or their subsidiaries, divisions, affiliates and related business entities, predecessors, successors and assigns, assets, employee benefit plans or funds, and any of its or their respective past and/or present directors, officers, fiduciaries, agents, trustees, administrators, attorneys, employees and assigns, whether acting as agents for the Company or in their individual capacities (collectively the "Company Entities"), is entered into as of the date hereof.

WHEREAS, Executive is employed pursuant to an Amended and Restated Employment Agreement effective October 14, 2021, as amended March 24, 2022 and October 20, 2022 (the "Employment Agreement");

WHEREAS, the Company and Executive have determined to mutually sever their employment relationship, subject to the terms herein;

NOW, therefore, in consideration of the mutual promises set forth in this Agreement, the parties agree as follows:

- 1. Employment Separation. Your final date of employment with the Company shall be November 18, 2023 (the "Separation Date"). Until such date, you shall be on a "Notice Period". During the Notice Period, you shall remain an employee of the Company (provided as of the date you execute this Agreement, you shall no longer hold the position of Chief Executive Officer and shall during the Notice Period maintain no operational title), and shall continue to receive Base Salary and health benefits coverage but no other compensation. The Company may elect to have you not report to work for all or any portion of such Notice Period, nor to perform any services other than as specifically requested by the Company. Subsequent to the Separation Date you shall not represent yourself as being an employee, officer, agent or representative of the Company for any purpose. The Separation Date shall be the termination date of your employment for all purposes including participation in and coverage under all benefit plans and programs sponsored by or through the Company Entities except as otherwise provided herein. For the sake of clarity, you shall remain an employee during the Notice Period and are subject to all terms and conditions of your employment, other than as stated herein, and your breach thereof may lead to a termination and the forfeiture of any Separation Benefits.
- a. As a condition of this Agreement, you hereby resign from any and all positions which you hold on the Company's Board of Directors effective as of the date you execute this Agreement. In furtherance thereof you shall promptly execute any documentation requested by the Company to effectuate same.
- b. You acknowledge and agree that, to the extent unpaid you are entitled to receive any earned but unpaid base salary and accrued but unused vacation time, and to be reimbursed for any incurred but unreimbursed business expenses (to the extent reimbursable in accordance with Company policy), in each case, through the Separation Date payable in accordance with Company policy, and that all other payments and all other benefits due to you from the Company or any of the Company Entities on or after the Separation Date shall be determined under this Agreement; provided that during the Notice Period you shall not accrue further vacation days and are not authorized to incur any further obligations or expenses on behalf of the Company. You acknowledge and agree that, except as stated in this Agreement, you are not entitled to any further payments or benefits from the Company or any Company Entity, whether in connection with your employment or otherwise.

- c. You shall have the right, in accordance with governing law, to continue your medical benefits under the Consolidated Omnibus Budget Reconciliation Act ("COBRA") health care continuation rules, provided, however, that any such continuation shall be at your sole expense other than as stated herein.
- 2. <u>Separation Benefits</u>. Assuming you timely execute and do not revoke this Agreement, timely execute and do not revoke the Reaffirmation attached hereto as Exhibit A and in exchange for your waiver of claims against the Company Entities and your compliance with the other terms and conditions of this Agreement (including any provisions of the Employment Agreement referenced herein), you shall receive, in full consideration of any amounts owed under the Employment Agreement, inclusive of Section 5.2(b) thereof:
- a. the equivalent of twelve (12) months of Executive's Base Salary in effect as of the date of Executive's employment termination which is \$624,000.00, subject to standard payroll deductions and withholdings; and
- b. a lump-sum payment equal to one hundred eighty seven thousand and two hundred dollars (\$187,200), representing the Annual Bonus amount due under Section 5.2(b)(y) of the Employment Agreement (together with the amounts payable under 2(a), the "Severance Benefits").
- c. a restricted share grant in an amount equal to \$1,502,488 in the Company's restricted stock, with 50% (i.e. \$751,244) granted and vested as soon as reasonably practicable after the Effective Date (as defined below) based on the share price as of the Effective Date, and 50% (i.e. the remaining \$751,244) granted and vested on the earlier of July 24, 2024 (one year anniversary date) or a Change in Control of the Company (as defined in the Employment Agreement), based on the share price of such date of grant. These restricted share grants represent full satisfaction of any amounts due under Section 3 of the Employment Agreement, including without limitation as a result of the sale of Enzo Clinical Labs to Labcorp.
- d. The RSU Grants and Option Grants as defined in the Employment Agreement (i.e., 260,000 RSU's and 700,000 options in total as of the date hereof) shall, to the extent not already vested, vest effective as of the Separation Date (and shall thereinafter remain subject to the terms of the grant documents under which they were granted).
- e. The Severance Benefits will be paid as a continuation on the Company's regular payroll, beginning no later than the first regularly-scheduled payroll date following the fifteenth (15th) day after the Effective Date of the Reaffirmation, provided that the amount under subsection (b), shall be paid in a lump sum on the sixtieth day after the Separation Date; and
- f. should you timely continue your medical benefits under the COBRA health care continuation rules and provided you submit evidence of payment acceptable to the Company, reimburse a monthly portion of such payments such that your out-of-pocket costs for such health care insurance shall be commensurate with that which you paid as an employee of the Company (the "COBRA Continuation Benefit"). The COBRA Continuation Benefit shall be payable on a monthly basis beginning as of the first submission of evidence of payment subsequent to the Separation Date, and lasting until the earlier of (a) your receipt of coverage from any other employer, for which you shall notify the Company promptly, or (b) August 31, 2024.

- 3. Acknowledgement. You acknowledge and agree that the payment(s) and other benefits provided pursuant to this Agreement: (i) are in full discharge of any and all liabilities and obligations of the Company Entities to you, monetarily or with respect to employee benefits or otherwise, and/or under any alleged written or oral employment agreement, policy, plan or procedure of the Company Entities and/or any alleged understanding or arrangement between you and the Company Entities; (ii) exceed(s) any payment, benefit, or other thing of value to which you might otherwise be entitled under any policy, plan or procedure of the Company Entities and/or any agreement between you and the Company Entities had you not entered into this Agreement. You further acknowledge that you have no right to reinstatement or re-employment with the Company or any Company Entity and agree that any application by you for re-employment may be rejected without explanation or liability, and that all such payments are being made, inter alia, in consideration of your agreement and adherence to the terms of this Agreement and any other agreements you may have with the Company and will be repayable in full to the Company with interest thereon in the event you breach any of the terms hereof or any other terms you may have with the Company.
- 4. Reaffirmation of Restrictive Covenants. In exchange for the benefits provided to you in this Agreement, you (a) reaffirm your obligations to the Company under Sections 9 and 10 of the Employment Agreement, agree that (b) all obligations thereunder are fully enforceable in accordance with their terms, and (c) you waive and agree not to assert any defense to the enforcement of any provision therein. For the sake of clarity, your performance of services for an entity which is not a Restricted Business (as defined in Section 9.3 of the Employment Agreement) subsequent to the Separation Date shall not be a violation of Section 9.3. The parties further agree that subsequent to the Separation Date, "Restricted Business" does not include the fields of clinical laboratory work, diagnostics and medical devices or any business that does not compete with the Company as of the Executive's execution of this Separation Agreement.

5. Release.

a. In consideration for the payment(s) and benefits provided under this Agreement, you (for yourself and your heirs, executors, administrators, beneficiaries, personal representatives and assigns) (the "Releasors") hereby completely, forever, irrevocably and unconditionally release and discharge, to the maximum extent permitted by law, the Company's past, present and future parent organizations, subsidiaries and other affiliated entities regardless of the nature of the affiliation, related companies and divisions and each of their respective past, present and future officers, directors, employees, shareholders, trustees, members, partners, attorneys and agents (in each case, individually and in their official capacities) and each of their respective employee benefit plans (and such plans' fiduciaries, agents, administrators and insurers, individually and in their official capacities), as well as any predecessors, future successors or assigns or estates of any of the foregoing (the "Released Parties") from any and all claims, actions, charges, controversies, causes of action, suits, rights, demands, liabilities, obligations, damages, costs, expenses, attorneys' fees and obligations of any kind or character whatsoever, that you ever had, now have or may in the future claim to have by reason of any act, conduct, omission, transaction, agreement, occurrence or any other matter whatsoever occurring up to and including the date that you sign this Agreement.

- b. Without limiting the generality of the foregoing, this Agreement is intended to and shall release the Released Parties from any and all claims, whether known or unknown, which Releasors ever had, now have, or may have against the Company Entities arising out of your employment and/or your separation from that employment, including, but not limited to: (i) any claim under Title VII of the Civil Rights Act of 1964, the Age Discrimination in Employment Act, the Americans with Disabilities Act, the Employee Retirement Income Security Act of 1974 (excluding claims for accrued, vested benefits under any employee benefit or pension plan of the Company Entities subject to the terms and conditions of such plan and applicable law), the Family and Medical Leave Act, and the Sarbanes-Oxley Act of 2002, each as amended; (ii) any claim under the New York State Human Rights Law, or the New York City Administrative Code; (iii) any other claim (whether based on federal, state, or local law, statutory or decisional) relating to or arising out of your employment, the terms and conditions of such employment, or the termination of such employment, including but not limited to breach of contract (express or implied), any claim that your resignation constituted a constructive discharge, fraud, misrepresentation, wrongful discharge, detrimental reliance, defamation, emotional distress or compensatory or punitive damages; (iv) any claim of any kind whatsoever with regard to any potential entitlement or payment; and (iv) any claim for attorneys' fees, costs, disbursements and/or the like. You expressly acknowledge that this general release of claims includes any and all claims arising up to and including the date you sign this Agreement that you have or may have against the Released Parties, whether such claims are known or unknown, suspected or unsuspected, asserted or unasserted, disclosed or undisclosed. By signing this Agreement, you expressly waive any right to assert that any such claim, demand, obligation or cause of action has, through ignorance or oversight, been omitted from the scope of this release and you further waive any rights under statute or common law principles that otherwise prohibit the release of unknown claims. Nothing in this Agreement shall be a waiver of claims that may arise after the date on which you sign this Agreement, any rights to indemnification and/or Directors and officers insurance coverage pursuant to Company by-laws, policies, and or procedures, or to any rights you may have pursuant to this Agreement.
 - 6. Non-Disparagement. The Company reaffirms its obligations under Section 9.5 of the Employment Agreement.
- 7. Waiver of Relief; Covenant Not to Sue. You acknowledge and agree that by virtue of the foregoing, you have waived any relief available to you (including without limitation, monetary damages, equitable relief and reinstatement) under any of the claims and/or causes of action waived in this Agreement. You therefore agree that you have not, and will not support or encourage any proceedings or arbitrations brought by others or bring any legal proceeding or arbitration, in any court or with any provider, with respect to any of the claims and/or causes of action waived in this Agreement.
- 8. <u>Disclosure</u>. You hereby acknowledge and agree that you have prior to signing this Agreement, disclosed to the Company all material information which you possessed during your employment with the Company relating to any violations of the securities laws or any other laws and regulations with which the Company has an obligation to comply.

- 9. <u>Confidentiality</u>. Other than as required by regulatory requirement, you shall keep the terms and conditions of this Agreement confidential, and such terms and conditions shall not be disclosed by you to any person or entity without the prior written consent of the Company, except to your accountants, attorneys and/or immediate family, or with respect to restrictive covenants only, to a prospective future employer provided that, to the maximum extent permitted by applicable law, rule, code or regulation, they agree to maintain the confidentiality of this Agreement. You further represent that you have not disclosed the terms and conditions of this Agreement to anyone other than your attorneys, accountants and/or immediate family.
- 10. Return of Property. You confirm that you have returned to the Company any and all Company documents, materials and information (whether in hardcopy, on electronic media or otherwise) related to Company business and/or containing any non-public information concerning the Company, as well as all equipment, keys, access cards, credit cards, computers, computer hardware and software, electronic devices and any other Company property in your possession, custody or control. You shall, as a condition precedent to any payments or grants made under Section 2, immediately return your computer and cell phone. You also represent and warrant that you have not retained copies of any Company documents, materials or information (whether in hardcopy, on electronic media or otherwise). You also agree that you will disclose to the Company all passwords necessary or desirable to enable the Company to access all information which you have password-protected on any of its computer equipment or on its computer network or system.
 - 11. Protected Rights. This Agreement is not intended to, and shall not, in any way prohibit, limit, or otherwise interfere with
- a. your protected rights under federal, state or local employment discrimination laws (including, without limitation, the ADEA and Title VII) to communicate or file a charge with, or participate in an investigation or proceeding conducted by, the Equal Employment Opportunity Commission ("EEOC") or similar federal, state or local government body or agency charged with enforcing employment discrimination laws. Therefore, nothing in this Agreement shall prohibit, interfere with or limit you from filing a charge with, communicating with or participating in any manner in an investigation, hearing or proceeding conducted by, the EEOC or similar federal, state or local agency. However, you shall not be entitled to any relief or recovery (whether monetary or otherwise), and you hereby waive any and all rights to relief or recovery, under, or by virtue of, any such filing of a charge with, or investigation, hearing or proceeding conducted by, the EEOC or any other similar federal, state or local government agency relating to any claim that has been released in this Agreement;
- b. your protected right to test in any court, under the Older Workers Benefit Protection Act, or like statute or regulation, the validity of the waiver of rights under ADEA in this Agreement solely on the grounds that this release and waiver was not made knowingly and voluntarily, provided you return any consideration provided herein as a condition of and prior to challenging such release;
- c. your right to disclose Confidential Information: (i) to the extent required by law, rule, or regulation; (ii) in response to a subpoena or other valid legal process in accordance with the terms stated herein unless proffered by a prospective employer of yours; (iii) with the prior written consent of the Company; (iv) to the extent necessary to enforce any provision of this Agreement, provided that you shall endeavor to file any such information under seal; (v) as protected by law (including engaging in concerted activity under the National Labor Relations Act for mutual aid and protection;

- d. your right to enforce the terms of this Agreement; or
- e. your right to make any disclosures that protected under the whistleblower provisions of federal law or regulation, or otherwise participate in any investigation or proceeding that may be conducted by any government agency, including providing documents or other information, without notice to the Company; or
 - f. receive an award for information provided to any government agencies.
- 12. <u>Severability</u>. If any provision of this Agreement is held by a court of competent jurisdiction to be illegal, void or unenforceable, such provision shall have no effect; however, the remaining provisions shall be enforced to the maximum extent possible. Further, if a court should determine that any portion of this Agreement is overbroad or unreasonable, such provision shall be given effect to the maximum extent possible by narrowing or enforcing in part that aspect of the provision found overbroad or unreasonable.
- 13. Breach of Agreement. You agree that any breach of this Agreement shall constitute a material breach as to which the Company Entities may seek all relief available under the law or at equity, including recoupment of the payment(s), grants, and benefits provided pursuant to this Agreement; provided, that for the sake of clarity, your breach shall not relieve you of any obligations contained herein (including, for the sake of clarity, the release), all of which shall continue as stated. In the event of any breach by you of your obligations under this Agreement the Company shall be entitled to cease making any payments not yet made under this Agreement, recover any payments that have already been made to you under this Agreement, and be awarded its reasonable attorneys' fees and costs if it is the prevailing party in any such recovery proceeding or any proceeding brought by you in breach of the covenant not to sue or to challenge the validity of the release. You further acknowledge that any breach of the promises set forth in this Agreement will cause the Company Entities irreparable harm for which there is no adequate remedy at law and for which there is no accurate estimation, and you therefore consent to the issuance of an injunction in favor of the Company Entities enjoining the breach of any of those promises by any court of competent jurisdiction.
- 14. Section 409A. The Company makes no representations or warranties with respect to the tax consequences of the payments and any other consideration provided to Employee or made on Employee's behalf under the terms of this Agreement. The parties intend that payments and benefits provided for in this Agreement to be either be exempt from Section 409A of the Internal Revenue Code, as amended (the "Code") or be provided in a manner that complies with Section 409A of the Code. Notwithstanding anything contained herein to the contrary, all payments and benefits which are payable upon a termination of employment hereunder shall be paid or provided only upon those terminations of employment that constitute a 'separation from service' from the Company within the meaning of Section 409A of the Code (determined after applying the presumptions set forth in Treas. Reg. Section 1.409A-l(h)(1)). For purposes of Section 409A of the Code, the right to a series of installment payments hereunder shall be treated as a right to a series of separate payments. In the event Executive is a specified employee under Section 409A of the Code, for purposes of any payment on termination of employment hereunder, if such payment would otherwise be made within six months of termination, such payment will be paid to Executive in a lump sum cash amount on the first payroll date which is more than six months following the date of Executive's termination, to the extent required to avoid any adverse tax consequences under Section 409A of the Code. Executive agrees and understands that Executive is responsible for payment, if any, of local, state, and/or federal taxes on the payments and any other consideration provided hereunder by the Company and any penalties or assessments thereon. Executive further agrees to indemnify and hold the Company harmless from any claims, demands, deficiencies, penalties, interest, assessments, executions, judgments, or recoveries by any government agency against the Company by reason of any such claims, including at

- 15. <u>Miscellaneous</u>. a. This Agreement is not intended, and shall not be construed, as an admission that any of the Company Entities has violated any federal, state or local law (statutory or decisional), ordinance or regulation, breached any contract or committed any wrong whatsoever against you. Nor shall any provision herein be intended or construed as an admission that you have violated any federal, state or local law (statutory or decisional), ordinance or regulation, breached any contract or committed any wrong whatsoever against any of the Company Entities.
- b. This Agreement may be executed in two or more counterparts, and by different parties hereto on separate counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. For all purposes a signature by fax or pdf shall be treated as an original.
- 16. <u>Assignment</u>. This Agreement shall inure to the benefit of the Company and the other Released Parties and shall be binding upon the Company and its successors and assigns. This Agreement also shall inure to the benefit of, and be binding upon, you and your heirs, executors, administrators, trustees and legal representatives. This Agreement is personal to you and you may not assign or delegate your rights or duties under this Agreement, and any such assignment or delegation will be null and void.
- 17. Governing Law. This Agreement and the rights and obligations of the parties hereunder shall be construed in accordance with and governed by the laws of the State of New York, without giving effect to the conflict of law principles thereof. Any legal action or proceeding with respect to this Agreement shall be resolved in accordance with Section 11 of the Employment Agreement, the terms of which (including, for the sake of clarity, the jury trial waiver), are incorporated herein by reference.
- 18. <u>Treatment of Equity.</u> For the sake of clarity any unvested equity awards held by you as of the Separation Date shall be treated in accordance with the terms of the governing plan and/or grant documents and shall forfeit as of the Separation Date, except as otherwise specifically stated herein with regard to the vesting of the inducement grants as stated in Section 2(d)
- 19. Entire Agreement. You acknowledge that, except as otherwise specifically set forth herein, this Agreement, together with the portions of the Employment Agreement referenced herein, constitutes the complete understanding between the Company and you, and supersedes any and all agreements, understandings, and discussions, whether written or oral, between you and any of the Company Entities. No other promises or agreements nor any amendment of this Agreement shall be binding unless in writing and signed by both the Company and you after the Effective Date (as defined below).

- 20. <u>Voluntary Agreement</u>. You acknowledge that you: (a) have carefully read this Agreement in its entirety; (b) have been offered the opportunity to have at least 21 days to consider its terms; (c) are hereby advised by the Company in writing to consult with an attorney of your choosing in connection with this Agreement; (d) fully understand the significance of all of the terms and conditions of this Agreement and have discussed them with your independent legal counsel, or had a reasonable opportunity to do so; (e) have had answered to your satisfaction any questions you have asked with regard to the meaning and significance of any of the provisions of this Agreement; and (f) are signing this Agreement voluntarily and of your own free will and agree to abide by all the terms and conditions contained herein.
- 21. Acceptance. You may accept this Agreement by signing it and returning it to the Company Attn: Matthew Kupferberg on or before the 21st day after receipt. After executing this Agreement, you shall have seven (7) days (the "Revocation Period") to revoke it by indicating your desire to do so in writing delivered to the General Counsel at the address above by no later than 5:00 p.m. on the seventh (7th) day after the date you sign this Agreement. The effective date of this Agreement shall be the eighth (8th) day after you sign it (the "Effective_Date"). If the last day of the Revocation Period falls on a Saturday, Sunday or holiday, the last day of the Revocation Period will be deemed to be the next business day. In the event you do not accept this Agreement as set forth above, or in the event you revoke this Agreement during the Revocation Period, this Agreement, including but not limited to the obligation of the Company to provide the payment(s) and benefits, shall be deemed automatically null and void.
- a. As noted above, this offer shall remain available to you for twenty-one (21) days from your receipt of this letter; it shall expire at the close of business on the twenty-first day. In the event that you do not accept this Agreement in the required time frames or if you revoke this Agreement this Agreement shall be deemed automatically null and void. You further understand that you must execute and not revoke the Reaffirmation attached as Exhibit A after the Separation Date (such date after any applicable revocation period stated in the Reaffirmation has expired, the "Effective Date of the Reaffirmation") in order to receive the consideration stated in this Agreement.
- 22. <u>Headings and Captions</u>. The headings and captions herein are provided for reference and convenience only. They shall not be considered part of this Agreement and shall not be employed in the construction of this Agreement. Counterpart signatures shall be treated as originals for all purposes hereto.

ENZO BIOCHEM INC.

By: /s/ Kara Cannon

Name: Kara Cannon

Title: Chief Operating Officer Date: September 5, 2023

HAMID ERFANIAN

/s/ Hamid Erfanian

Date: September 5, 2023

EXHIBIT A

REAFFIRMATION

(TO BE SIGNED ON OR AFTER SEPARATION DATE)

I hereby reaffirm all covenants and obligations set forth in the Separation Agreement and General Release, which is incorporated by reference into this reaffirmation ("Reaffirmation"). I hereby reaffirm that I have complied with the terms of the Separation Agreement and General Release and reaffirm and agree to all of the terms stated therein, including without limitation the release stated in Paragraph 5. I understand that this Reaffirmation is required for me to receive the consideration stated in Paragraph 2 of the Separation Agreement and General Release.

I further acknowledge that I have been advised in writing by way of this Reaffirmation, that: (a) I have the right to consult with an attorney prior to executing this Reaffirmation; (b) I have at least twenty-one (21) days to consider this Reaffirmation (although I may choose to voluntarily execute this Reaffirmation earlier); (c) I acknowledge and understand that I have seven (7) calendar days from the date on which I execute this Reaffirmation to revoke my acceptance; and (d) once the revocation period expires, the Reaffirmation becomes effective and enforceable.

I ratify and reaffirm the commitments set forth herein as of the Separation Date or the date I sign this reaffirmation if such date is later.

Dated

NOT TO BE SIGNED BEFORE THE SEPARATION DATE

SETTLEMENT AGREEMENT

This Settlement Agreement, dated as of October 24, 2023 ("Agreement"), is entered into by and between Barry Weiner ("Weiner"), Shahla Weiner, Roya Weiner, and Jonathan Weiner (collectively, the foregoing are the "Weiner Parties" and each is a "Weiner Party"), Enzo Biochem, Inc. (the "Company"), Mary Tagliaferri, Ian Walters, Brad Radoff, and Hamid Erfanian (the Company, Dr. Tagliaferri, Dr. Walters, Mr. Radoff, and Mr. Erfanian are, collectively, the "Enzo Parties" and each is an "Enzo Party") (the Weiner Parties and Enzo Parties are, collectively, the "Parties" and each is a "Party"). Desiring to settle all disputes and claims between the Weiner Parties and the Enzo Parties, the Parties hereby agree as follows:

A. Settlement Payments; Dismissal of the Arbitration

- 1. Within seven (7) business days after the later of the (i) Effective Date of this Agreement (as defined in paragraph 5), or (ii) dismissal, with prejudice, of the claims in the arbitration pending before the American Arbitration Association, Arbitrator Loretta M. Gastwirth (the "Arbitrator"), *Weiner v. Enzo Biochem, Inc.*, AAA Case No. 01-22-0003-1311 (the "Arbitration"), the Company will make a payment of \$3,600,000, less applicable tax withholdings, to Weiner.
- 2. The method of payment (check, wire transfer, etc.) for the payment contemplated in paragraph 1 shall be the same as the method in which Weiner received his last paycheck when he was employed by the Company, unless Weiner's counsel otherwise instructs in writing. If any such payment is made by check and the check is not honored due to insufficient funds or other factor in control of the Company, the Company shall bear the cost of any associated fees or costs. The Company shall bear the cost of any fees associated with any wire transfer.
- 3. Promptly after the Parties' execution of this Agreement, the Parties agree to jointly request that the Arbitrator dismiss the claims in the Arbitration, with prejudice and with each of the Parties to bear their own fees and costs (including, without limitation, attorney's fees and costs).

B. Mutual Releases

4. Other than as set forth in this Agreement, the Weiner Parties, on behalf of themselves and their immediate family, successors, and assigns, forever waive and release any and all rights and claims of any kind, which they presently have, had or may have against the Enzo Parties, their past, present and future subsidiaries, affiliates, purchasers of assets, successors, and assigns, as well as the past, present and future directors, officers, agents, representatives, attorneys and employees of such companies or the Enzo Parties (collectively, the "Enzo Released Parties") up to the date of their execution of this Agreement including, without limitation, any and all claims of any kind relating to any act or omission that occurred prior to his execution of this Agreement or any matters arising out of his employment or directorship with any of the Enzo Released Parties. Specifically, but without limiting that general release, he hereby waives any claims for overtime, bonuses, severance or other compensation, back pay, front pay, unpaid wages, overtime compensation, benefits, discrimination, retaliation, any rights or claims under his employment agreement with the Company dated as of December 4, 2008, as amended (the "Employment Agreement"), any rights or claims regarding the sale of Enzo Clinical Labs, Inc., as consummated on July 24, 2023, and any other rights or claims that were or could have been asserted in the Arbitration. This Agreement is intended as a full settlement and compromise of each, every and all claims of every kind and nature, whether known or unknown, actual or contingent, asserted or unasserted, arising under common law, statutory law or otherwise; no claim of any sort is reserved and there are no sums or benefits payable to the Weiner Parties by the Enzo Released Parties other than as set forth in this Agreement. In addition, Weiner agrees that there will be no reinstatement or re-employment with the Enzo Released Parties and agree not to bring any claim based upon the failure or refusal of any

- 5. In conformity with the Older Workers Benefit Protection Act, Weiner acknowledges the following: (i) this Agreement is written in a manner calculated to be understood by Weiner; (ii) this Agreement represents Weiner's knowing and voluntary waiver and release of any and all claims that Weiner might have including, but not limited to, any claims arising under the Age Discrimination in Employment Act of 1967 (the "ADEA"); (iii) Weiner has not waived any claim under the ADEA that may arise after the date of this Agreement; (iv) the consideration that Weiner will receive in exchange for this Agreement is something of value to which Weiner is not already entitled; (v) the Company has advised Weiner to consult with an attorney prior to executing this Agreement and he has done so; (vi) Weiner was provided 21 days to consider whether to sign this Agreement; (vii) any changes to this Agreement, whether material or immaterial, will not restart that 21-day period; and (viii) Weiner has 7 days following his execution of this Agreement in which to revoke it by written notice of revocation that must be sent digitally to and received by Matthew Kupferberg, the Company's General Counsel, at mkupferberg@enzo.com, no later than the seventh day after Weiner has signed this Agreement. This Agreement will not become effective and enforceable until the eighth day after Weiner signs this Agreement (if not revoked pursuant to the terms of this paragraph), and such eighth day will be the "Effective Date" of this Agreement.
- 6. Other than as set forth in this Agreement, the Enzo Parties, on behalf of themselves, and their successors and assigns, forever waive and release any and all rights and claims of any kind, which they presently have, had or may have against the Weiner Parties and their past and present employees, agents, executors, administrators, heirs, successors, and assigns (collectively, the "Weiner Released Parties") up to the date of their execution of this Agreement including, without limitation, any and all claims of any kind relating to any act or omission that occurred prior to their execution of this Agreement or any matters arising out of Weiner's employment or directorship with any of the Enzo Released Parties. Specifically, but without limiting that general release, the Enzo Parties hereby waive any rights or claims under Weiner's Employment Agreements and any other rights or claims that were or could have been asserted in the Arbitration. This Agreement is intended as a full settlement and compromise of each, every and all claims of every kind and nature, whether known or unknown, actual or contingent, asserted or unasserted, arising under common law, statutory law or otherwise; no claim of any sort is reserved and there are no sums or benefits payable by Weiner to the Enzo Parties. Notwithstanding the terms of this release, the Enzo Parties may receive any payments or benefits that may be due to them as a member of a class pursuant to the terms of the settlement of any shareholder derivative class action suit, provided that such Enzo Party was not a named plaintiff in or otherwise commenced, maintained, encouraged, initiated, filed, or prosecuted such suit.
- 7. Notwithstanding any other provision of this Agreement (including, without limitation, the releases set forth in paragraphs 4 through 6), this Agreement does not (i) release any rights to unemployment benefits that Weiner may seek from state unemployment compensation agencies; or (ii) modify, affect or waive any rights, claims, or agreements relating to any landlord/tenant agreements with respect to the premises located at 60 Executive Boulevard. Farmingdale, New York 11735.

C. Covenant Not To Sue

- 8. The Weiner Parties covenant and agree that they and their immediate family, successors, and assigns will not now or at any time in the future commence, maintain, encourage, prosecute or participate in as a party, or permit to be filed by any other person on their behalf or as a member of any alleged class of persons (not including any shareholder derivative action that may be brought by any shareholder of the Company other than the Weiner Parties), any action, suit, proceeding, claim or complaint of any kind against any of the Enzo Released Parties with respect to any matter that is encompassed in the release set forth in paragraph 4. The receipt of any payments or benefits that may be due to any Weiner Party as a member of a class pursuant to the terms of the settlement of any shareholder derivative class action suit shall not be a violation of this covenant not to sue, provided that such Weiner Party was not a named plaintiff in or otherwise commenced, maintained, encouraged, initiated, filed or prosecuted such suit. For any breach of this covenant not to sue, the Enzo Released Parties shall be entitled to recover their fees and costs (including, without limitation, attorney's fees and costs) incurred as a result of such breach in addition to any other damages. To the extent that any of the Weiner Parties is subject to a lawful subpoena, governmental request, court order, or other legal obligation to provide documents or information (a "Demand") in connection with a governmental investigation or lawsuit that is not commenced, maintained, encouraged, initiated, filed, or prosecuted by any Weiner Party, responding truthfully to such Demand shall not constitute a breach of this provision.
- 9. The Enzo Parties covenant and agree that they, and their successors assigns, will not now or at any time in the future commence, maintain, encourage, prosecute or participate in as a party, or permit to be filed by any other person on their behalf or as a member of any alleged class of persons (not including any shareholder derivative action that may be brought by any shareholder of the Company other than the members of the Board of Directors), any action, suit, proceeding, claim or complaint of any kind against any of the Weiner Parties with respect to any matter that is encompassed in the release set forth in paragraph 6. The receipt of any payments or benefits that may be due to any Enzo Party as a member of a class pursuant to the terms of the settlement of any shareholder derivative class action suit shall not be a violation of this covenant not to sue, provided that such Enzo Party was not a named plaintiff in or otherwise commenced, maintained, encouraged, initiated, filed, or prosecuted such suit. For any breach of this covenant not to sue, the Weiner Parties shall be entitled to recover their fees and costs (including, without limitation, attorney's fees and costs) incurred as a result of such breach in addition to any other damages. To the extent that any of the Enzo Parties is subject to a Demand in connection with a governmental investigation or lawsuit that is not commenced, maintained, encouraged, initiated, filed, or prosecuted by any Enzo Party, responding truthfully to such Demand shall not constitute a breach of this provision.

10. Any Party who breaches paragraph 8 or 9 of this Agreement shall be liable for liquidated damages in the amount of \$1,000,000 per violation, in addition to payment of the fees and costs (including, without limitation, attorney's fees and costs) incurred by reason of such breach. The Parties stipulate that this amount of liquidated damages is reasonable in light of the difficulty of calculating the actual damages occasioned by such violation and that these liquidated damages will in no way be construed as a penalty

D. Non-Disparagement

- 11. The Weiner Parties agree that they will not make any statements (whether oral or written) to any third parties that disparage or reflect negatively on the Company, its personnel, reputation, business operations, products, policies, or conduct of the Company or any Enzo Released Parties. This obligation shall not apply to statements made in connection with the performance or enforcement of this Agreement. If any of the Weiner Parties breaches this paragraph 11 then, in addition to other remedies for such breach, paragraph 12 shall be void with respect to the breaching Party.
- 12. The Enzo Parties agree that they will not make any statements (whether oral or written) to any third parties that disparage or reflect negatively upon the Weiner Parties. This obligation shall not apply to statements made in connection with the performance or enforcement of this Agreement. If any of the Enzo Parties breaches this paragraph 12 then, in addition to other remedies for such breach, paragraph 11 shall be void with respect to the Company and the breaching Enzo Party.
- 13. Nothing in this Agreement requires any witness to give false or incomplete testimony or prohibits any person or entity from testifying truthfully in any legal proceeding in which that person or entity is compelled by valid court order or subpoena to give testimony under oath. If any of the Weiner Parties receives a subpoena or order purporting to compel them testify and/or produce documents in any matter pertaining to the Company, such Party agrees to promptly notify the Company's Chief Executive Officer and/or General Counsel, permit the Company the opportunity to challenge, quash, or otherwise curtail or limit such subpoena, and cooperate with the Company's efforts with respect thereto. If any of the Enzo Parties receives a subpoena or order purporting to compel them testify and/or produce documents in any matter pertaining to the Weiner Parties, such Party agrees to promptly notify Weiner and/or undersigned counsel for Weiner, pem1it Weiner the opportunity to challenge, quash, or otherwise curtail or limit such subpoena, and cooperate with the Weiner Parties' efforts with respect thereto.

E. Confidential Information/Non-Competition and Shares

- 14. Weiner reaffirms the validity of, and agrees to comply with, his surviving post- employment obligations set forth in Section 6 of his Employment Agreement.
- 15. Enzo shall promptly cause all restrictive legends to be removed from the shares of Enzo Common Stock held by Weiner and shall otherwise cooperate with Weiner in the removal of all insider restrictions on any Enzo securities owned by Weiner.

F. Indemnification

16. The Company agrees to indemnify Weiner, subject to applicable law, against all costs, judgments, charges and expenses incurred or sustained by Weiner in connection with any threatened or filed action, suit, arbitration, or proceeding (each, a "Proceeding") to which Weiner may be made a party, or is threatened to be made a party, that is brought by any party (other than the Company or its affiliates), by reason of any act or omission of Weiner as an employee of the Company that was taken in good faith on behalf of the Company, within the scope of Weiner's employment, and in compliance with Weiner's contractual duties and the law. Such indemnification shall be subject to the following: (i) Weiner reasonably cooperates with the Company and its counsel in connection with any matter that is encompassed within this indemnification; and (2) the Company will have the right to control the defense or settlement of any matter that is encompassed within this indemnification, including the selection and direction of counsel. The Company shall contemporaneously pay (after receipt of reasonable documentation), to the maximum extent permitted by law, all reasonable costs, expenses, and attorney's fees actually and necessarily incurred by Weiner in connection with any Proceeding. Weiner will be required to repay such amounts advanced only if, and to the extent that, it ultimately is determined by a court of competent jurisdiction or arbitrator that Weiner was not entitled to be indemnified by the Company.

G. General Provisions

- 17. Each of the Parties represents and warrants (a) that he, she, and/or it has the full right, power and authority to enter into this Agreement, to make all of the grants, promises and covenants contained herein, to waive the claims and matters he, she, and/or it has agreed to release in this Agreement, and to perform all of his, her, and/or its obligations under this Agreement; (b) that the execution of this Agreement has been duly approved by any and all necessary corporate actions and that the person executing this Agreement on behalf of any corporate Party is authorized to do so; (c) that this Agreement (assuming due execution and delivery by the other Parties) constitutes the valid and binding obligation of such Party, enforceable in accordance with its terms; and (d) that he, she, and/or it has not transferred or assigned any claim or cause of action which relates to, or is encompassed within, the matters covered by this Agreement and/or which would violate or otherwise impair the full enforcement of this Agreement.
- 18. The Parties agree that a breach of this Agreement will cause irreparable harm for which there is no adequate remedy at law, and accordingly each of the Parties expressly waives any contention that there is an adequate remedy at law, or that there is no irreparable harm, or any like doctrine that might otherwise preclude injunctive relief to enforce this Agreement.
- 19. The terms of this Agreement will be binding on and inure to the benefit of the Parties hereto and their respective heirs, executors, administrators, successors and assigns, including the Company's successors or assigns (including, without limitation, any buyer of Enzo Life Sciences) and any corporation, partnership or other entity into or with which any Party hereto may merge, consolidate or reorganize.

- 20. Weiner and the Company will comply with Section G of the Stipulation and Order Regarding Confidential Information in the Arbitration with respect to the return or destruction of documents exchanged during discovery in the Arbitration.
- 21. Each Party shall be responsible for its own fees and costs (including, without limitation, attorney's fees and costs) incurred in connection with the Arbitration and/or the claims released in Section B of this Agreement.
- 22. The Parties agree than none of the Parties admit to any wrongdoing and that neither their entry into this Agreement nor any action taken by any Party pursuant to this Agreement is not an admission of any wrongdoing or liability of any kind by any Party or a waiver of any defenses or any claims or counterclaims that would have been available to that Party.
- 23. All notices, requests, or other communications under this Agreement must be in writing and, except as otherwise set forth herein, must be given by personal delivery, overnight courier, mailing, or email to the appropriate Party at the addresses below. Unless otherwise notified in writing, the addresses of the Parties to this Agreement, for the purpose of such notices, requests or communications, are as follows:

Mr. Barry Weiner To:

[redacted]

With a copy to:

Evan Farber Loeb & Loeb [redacted]

To: Enzo Biochem, Inc.

> Attn: Matthew Kupferberg, General Counsel 81 Executive Blvd, Suite 3 Farmingdale NY 11735 With a copy to: Marc Bernstein Paul Hastings LLP [redacted]

To: Mr. Hamid Erfanian [redacted]

To: Mr. Bradley Radoff

[redacted]

To: Dr. Mary Tagliaferri

[redacted]

To: Dr. Ian Walters [redacted]

24. This Agreement constitutes the entire agreement and understanding between the Parties with regard to the subject matter herein. Other than as set forth in paragraphs 7 and 14 of this Agreement, this Agreement supersedes and cancels any prior or contemporaneous understandings, agreements, or representations by or between the Parties, written or oral, relating to the subject matter herein. The Parties acknowledge that, in entering into this Agreement, they are not relying on any promises or representations (whether oral or written) other than those set forth in this Agreement. Any modification or amendment of this Agreement must be made in writing and signed by the Parties.

- 25. If any term or provision of this Agreement, or the application thereof to any person or circumstances will to any extent be invalid or unenforceable, the provision at issue shall be enforced to the maximum extent permitted by law, and the remainder of this Agreement, or the application of such terms to persons or circumstances other than those as to which it is invalid or unenforceable, will not be affected thereby, and each term of this Agreement will be valid and enforceable to the fullest extent permitted by
- 26. Any dispute arising under this Agreement shall be governed by the law of the State of New York, without reference to choice of law rules that would cause the application of the law of any other jurisdiction. Any action or proceeding arising out of or relating to this Agreement shall be brought in the federal or state courts located in the State of New York, County of New York. Each of the Parties irrevocably submits itself to the jurisdiction of said courts, and said courts shall have exclusive jurisdiction over any and all claims arising out of or relating to this Agreement. Each of the Parties hereby irrevocably waives and renounces in advance any right to a trial by jury in connection with any action or proceeding arising out of or relating to this Agreement.
- 27. The Parties warrant that they are fully competent to enter into this Agreement; that they have read this Agreement and fully understand its meaning; that they have received advice from counsel of their choosing before executing this Agreement; that they knowingly and voluntarily enter into this Agreement; and that they agree to comply with its terms and conditions.
- 28. This Agreement may be executed in any number of counterparts and such counterparts may be obtained by pdf email or Docusign, each of which taken together will constitute one and the same instrument.

/s/ Barry Weiner	10/25/23
Barry Weiner	Date
/s/ Shahla Weiner	10/25/23
Shahla Weiner	Date
/s/ Roya Weiner	10/25/23
Roya Weiner	Date
/s/ Jonathan Weiner	10/25/23
Jonathan Weiner	Date
Enzo Biochem, Inc.	
/s/ Kara Cannon	10/30/23
Kara Cannon	Date
/s/ Mary Tagliaferri	10/27/23
Mary Tagliaferri	Date
/s/ Ian Walters	10/25/23
Ian Walters	Date
/s/ Bradley Radoff	10/24/23
Bradley Radoff	Date
/s/ Hamid Erfanian	10/25/23
Hamid Erfanian	Date

List of subsidiaries of the Company

Enzo Clinical Labs, Inc., a New York Corporation

Enzo Life Sciences, Inc., a New York Corporation

Enzo Life Sciences (ELS) AG, in Lausen, Switzerland, a wholly-owned subsidiary of Enzo Life Sciences, Inc.

Enzo Therapeutics, Inc., a New York Corporation

Enzo Realty LLC, a New York Corporation

Enzo Realty II, LLC, a New York Corporation

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in the Registration Statements of Enzo Biochem, Inc. on Form S-3 (No. 333-271911, 333-272727 and 333-220312) and Form S-8 (Nos. 033-88826, 333-172127, 333-197028, 333-226799, 333-236958, 333-252159 and 333-260894) of our report dated November 3, 2023, on our audits of the financial statements and financial statement schedule as of July 31, 2023 and 2022 and for each of the years then ended, which report is included in this Annual Report on Form 10-K to be filed on or about November 3, 2023.

/s/ EisnerAmper LLP

EISNERAMPER LLP Iselin, New Jersey November 3, 2023

CERTIFICATIONS

In connection with the Annual Report on Form 10-K of Enzo Biochem, Inc. ("the Company") for the fiscal year ended July 31, 2023 as filed with the Securities and Exchange Commission on the date hereof, I, Kara Cannon, Interim Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 302 of the Sarbanes-Oxley Act of 2002, that:

- 1. I have reviewed this Annual Report on Form 10-K of Enzo Biochem, 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 Company as of, and for, the periods presented in this report;
- 4. The Company'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 Company 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 Company, 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 Company'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 Company's internal control over financial reporting that occurred during the Company's most recent fiscal quarter (the Company's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the Company's internal control over financial reporting; and
- 5. The Company's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the Company's auditors and the audit committee of the Company'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 Company'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 Company's internal control over financial reporting.

Date: November 3, 2023

By: /s/ Kara Cannon

Kara Cannon Interim Chief Executive Officer

CERTIFICATIONS

In connection with the Annual Report on Form 10-K of Enzo Biochem, Inc. ("the Company") for the fiscal year ended July 31, 2023 as filed with the Securities and Exchange Commission on the date hereof, I, Patricia Eckert, Interim Chief Financial Officer and Principal Accounting Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 302 of the Sarbanes-Oxley Act of 2002, that:

- 1. I have reviewed this Annual Report on Form 10-K of Enzo Biochem, 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 Company as of, and for, the periods presented in this report;
- 4. The Company'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 Company 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 Company, 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 Company'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 Company's internal control over financial reporting that occurred during the Company's most recent fiscal quarter (the Company's fourth quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the Company's internal control over financial reporting; and
- 5. The Company's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the Company's auditors and the audit committee of the Company'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 Company'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 Company's internal control over financial reporting.

Date: November 3, 2023

By: /s/ Patricia Eckert

Patricia Eckert

Interim Chief Financial Officer, Principal Accounting Officer

CERTIFICATE 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 of Enzo Biochem, Inc., and Subsidiaries ("the Company") on Form 10-K for the fiscal year ended July 31, 2023 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Kara Cannon, Interim Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that:

- (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.

Dated: November 3, 2023

By: /s/ Kara Cannon

Kara Cannon Interim Chief Executive Officer

A signed original of this written statement required by Section 906, or other document authenticating, acknowledging, or otherwise adopting the signature that appears in typed form within the electronic version of this written statement required by Section 906, has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Act Commission or its staff upon request.

CERTIFICATE 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 of Enzo Biochem, Inc., and Subsidiaries ("the Company") on Form 10-K for the fiscal year ended July 31, 2023 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Patricia Eckert, Interim Chief Financial Officer and Principal Accounting Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that:

- (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.

Date: November 3, 2023 By: /s/ Patricia Eckert

Patricia Eckert

Interim Chief Financial Officer, Principal Accounting Officer

A signed original of this written statement required by Section 906, or other document authenticating, acknowledging, or otherwise adopting the signature that appears in typed form within the electronic version of this written statement required by Section 906, has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Act Commission or its staff upon request.

ENZO BIOCHEM, INC. (the "Company")

COMPENSATION CLAWBACK POLICY

Effective Date: October 1, 2023

- 1. Purpose. The Company has adopted this Policy to comply with Section 954 of the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010, as codified by Section 10D of the Exchange Act, and Section 303A.14 of the NYSE Listed Company Manual, which require the recovery of certain forms of executive compensation in the case of accounting restatements resulting from a material error in an issuer's financial statements or material noncompliance with financial reporting requirements under the federal securities laws.
- 2. Administration. This Policy shall be administered by the Board or, if so designated by the Board, the Compensation Committee, in which case references herein to the Board shall be deemed references to the Compensation Committee.
- 3. **Definitions.** For purposes of this Policy, the following capitalized terms shall have the meanings set forth below.
 - (a) "Acknowledgement Form" shall mean the acknowledgment form attached hereto as Annex A.
 - (b) "Board" shall mean the Board of Directors of the Company.
 - (c) "Commission" shall mean the U.S. Securities and Exchange Commission.
 - (d) "Covered Executive" shall mean the Company's current and former executive officers, and such other employees who may from time to time be deemed subject to this Policy by the Board. For purposes of this Policy, an executive officer means an officer as defined in Rule 16a-1(f) under the Exchange Act.
 - (e) "Erroneously Awarded Compensation" shall mean, with respect to each Covered Executive in connection with a Restatement, the amount of Incentive-based Compensation that exceeds the amount of Incentive-based Compensation that would have been received by the Covered Executive had it been determined based on the restated amounts, without regard to any taxes paid by the Covered Executive.
 - (f) "Exchange Act" shall mean the Securities Exchange Act of 1934, as amended.
 - (g) "Financial Reporting Measures" shall mean measures that are determined and presented in accordance with the accounting principles used in preparing the Company's financial statements, and any measures that are derived wholly or in part from such measures. Stock price and total shareholder return shall also constitute "Financial Reporting Measures." A Financial Reporting Measure need not be presented within the Company's financial statements or included in a filing with the Commission.
 - (h) "Incentive-based Compensation" shall mean any compensation that is granted, earned, or vested based wholly or in part upon the attainment of a Financial Reporting Measure. Incentive-based Compensation shall be deemed to have been received during the fiscal period in which the Financial Reporting Measure specified in the Incentive-based Compensation award is attained, even if such Incentive-based Compensation is paid or granted after the end of such fiscal period. For the avoidance of doubt, Incentive-based Compensation does not include annual salary, compensation awarded based on completion of a specified period of service, or compensation awarded based on subjective standards, strategic measures, or operational measures.

- (i) "NYSE" shall mean the New York Stock Exchange
- (j) "Policy" shall mean this compensation clawback policy, as may be amended or restated from time to time.
- (k) "Restatement" shall mean an accounting restatement due to material noncompliance by the Company with any financial reporting requirement under the federal securities laws, including any required accounting restatement to correct an error in previously issued financial statements that is material to the previously issued financial statements, or that would result in a material misstatement if the error were corrected in the current period or left uncorrected in the current period.
- (l) "Restatement Date" shall be the earlier of (i) the date the Board, a committee of the Board, or officer(s) are authorized to take such action if Board action is not required, concludes, or reasonably should have concluded, that the Company is required to prepare a Restatement or (ii) the date a court, regulator, or other legally authorized body directs the Company to prepare a Restatement.
- 4. Effective Date. This Policy shall be effective as of the date set forth above and shall apply to Incentive-based Compensation that is approved, awarded, or granted to Covered Executives on or after that date.
- 5. Scope. This Policy applies to all Incentive-based Compensation received by the Covered Executives (i) after beginning service as an executive officer, (ii) who served as an executive officer at any time during the performance period for such Incentive-based Compensation, (iii) while the Company had a class of securities listed on a national securities exchange or a national securities association and (iv) during the three (3) completed fiscal years immediately preceding a Restatement Date. In addition to these last three (3) completed fiscal years, the Policy applies to any transition period that results from a change in the Company's fiscal year within or immediately following those three (3) completed fiscal years, provided, however, that a transition period between the last day of the Company's previous fiscal year end and the first day of its new fiscal year that comprises a period of nine (9) to twelve (12) months would be deemed a completed fiscal year for purposes of this Policy. For the avoidance of doubt, the Company's obligation to recover Erroneously Awarded Compensation is not dependent on if or when the restated financial statements are filed.
- 6. Recovery. In the event the Company is required to prepare a Restatement, the Company shall, as promptly as reasonably possible, recover any Erroneously Awarded Compensation received by a Covered Executive during the three (3) completed fiscal years immediately preceding the Restatement Date. For Incentive-based Compensation based on stock price or total shareholder return, the Board shall determine the amount of Erroneously Awarded Compensation based on a reasonable estimate of the effect of the Restatement on the stock price or total shareholder return upon which the Incentive-based Compensation was received and the Company shall document such reasonable estimate and provide such documentation to NYSE.

Subsequent changes in a Covered Executive's employment status, including retirement or termination of employment, do not affect the Company's rights to recover Incentive-based Compensation pursuant to this Policy.

The Board shall determine, in its sole discretion, the method of recovering any Incentive-based Compensation pursuant to this Policy. Such methods may include, but are not limited to: (i) direct recovery by reimbursement; (ii) set-off against future compensation; (iii) forfeiture of equity awards; (iv) set-off or cancelation against planned future awards; (v) forfeiture of deferred compensation (subject to compliance with the Internal Revenue Code and related regulations); and/or (vi) any other recovery action approved by the Board and permitted under applicable law.

- 7. Impracticability. The Board shall recover any Erroneously Awarded Compensation in accordance with this Policy unless such recovery would be impracticable, as determined by the Board or a committee of the Board in accordance with Rule 10D-1 under the Exchange Act and the listing standards of NYSE.
- 8. No Indemnification. The Company shall not indemnify any current or former Covered Executive against the loss of Erroneously Awarded Compensation, and shall not pay, or reimburse any Covered Executives, for any insurance policy to fund such executive's potential recovery obligations.
- 9. Acknowledgment. Each Covered Executive shall sign and return to the Company, within 30 calendar days following the later of (i) the effective date of this Policy first set forth above or (ii) the date the individual becomes a Covered Executive, the Acknowledgement Form, pursuant to which the Covered Executive agrees to be bound by, and to comply with, the terms and conditions of this Policy.
- 10. Amendment and Interpretation. The Board may amend this Policy from time to time in its discretion, and shall amend this Policy as it deems necessary to reflect the regulations adopted by the Commission and to comply with any rules or standards adopted by NYSE or such other national securities exchange on which the Company's securities are then listed. It is intended that this Policy be interpreted in a manner that is consistent with the requirements of Section 10D of the Exchange Act and any applicable rules or standards adopted by the Commission and NYSE, or such other national securities exchange on which the Company's securities are then listed.
- 11. Other Recoupment Rights. This Policy shall be applied to the fullest extent of the law. The Board may require that any employment agreement, equity award agreement, or similar agreement entered into on or after the effective date shall require a Covered Executive to agree to abide by the terms of this Policy as a condition to the grant of any benefit. Any right of recoupment under this Policy is in addition to, and not in lieu of, any other rights of recoupment or remedies that may be available to the Company pursuant to the terms of any employment agreement, equity award agreement, similar agreement, or policy and any other legal remedies available to the Company.
- 12. Successors. This Policy shall be binding and enforceable against all Covered Executives and their administrators, beneficiaries, executors, heirs, or other legal representatives.
- 13. Venue. All actions arising out of or relating to this Policy shall be brought and determined exclusively in the state courts of the State of New York or, in the event that such court does not have subject matter jurisdiction over such action, in any state or federal court within the State of New York.
- 14. Governing Law. This Policy shall be governed by and construed in accordance with the internal laws of the State of New York, without giving effect to any choice or conflict of law provision or rule (whether of the State of New York or any other jurisdiction).

Annex A

ENZO BIOCHEM, INC.

COMPENSATION CLAWBACK POLICY

ACKNOWLEDGEMENT FORM

By signing below, the undersigned acknowledges and confirms that the undersigned has received and reviewed a copy of the Enzo Biochem, Inc. (the "Company") Compensation Clawback Policy (the "Policy"). Capitalized terms used but not defined in this Acknowledgement Form (this "Acknowledgement Form") shall have the meanings set forth in the Policy.

By signing this Acknowledgement Form, the undersigned acknowledges and agrees that the undersigned is and will continue to be subject to the Policy and that the Policy will apply both during and after the undersigned's employment with the Company. Further, by signing below, the undersigned agrees to abide by the terms of the Policy, including,

without limitation, by returning any Incentive-based Compensation subject to recovery under the Policy to the Company to the extent required by, and in a manner consistent with, the Policy.

Signature

Print Name

Date