As filed with the Securities and Exchange Commission on June  $\_$  , 1995 Registration No. 33-

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SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM S-3

REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

ENZO BIOCHEM, INC.

(EXACT NAME OF REGISTRANT AS SPECIFIED IN ITS CHARTER)

NEW YORK 13-2866202 (STATE OR OTHER JURISDICTION OF (I.R.S. EMPLOYER IDENTIFICATION NO.)

INCORPORATION OR ORGANIZATION)

60 EXECUTIVE BOULEVARD, FARMINGDALE, NEW YORK 11735 (516) 755-5500 (ADDRESS, INCLUDING ZIP CODE, AND TELEPHONE NUMBER, INCLUDING AREA CODE, OF REGISTRANTS'S PRINCIPAL EXECUTIVE OFFICES)

ELAZAR RABBANI, PH.D., PRESIDENT ENZO BIOCHEM, INC. 60 EXECUTIVE BOULEVARD FARMINGDALE, NEW YORK 11735 (516) 755-5500

(NAME, ADDRESS, INCLUDING ZIP CODE, AND TELEPHONE NUMBER, INCLUDING AREA CODE, OF AGENT FOR SERVICE)

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COPY TO:

ROBERT H. COHEN, ESQ.
BRYAN CAVE
245 PARK AVENUE
NEW YORK, NEW YORK 10167-0034
(212) 692-1800

APPROXIMATE DATE OF COMMENCEMENT OF PROPOSED SALE TO THE PUBLIC: From time to time after this registration statement becomes effective.

If any of the securities being registered on this form are being offered pursuant to dividend or interest reinvestment plans, please check the following box. //  $\,$ 

If any of the securities being registered on this form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box. /x/

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<TABLE> <CAPTION>

### CALCULATION OF REGISTRATION FEE

Title of Shares to be Registered	Amount to be Registered	Proposed Maximum Offering Price Per Share (1)	Proposed Maximum Aggregate Offering Price	Amount of Registration Fee		
<s> Common Stock,</s>	<c></c>	<c></c>	<c></c>	<c></c>		
par value \$ .01	494,928	\$11.125	\$5,506,074	\$1,898.65		

<FN>

<sup>(1)</sup> Estimated solely for the purpose of calculating the registration fee

pursuant to Rules 457(c) and 457(g), based on the average of the high and low prices of the Registrant's Common Stock on June 12, 1995, as reported by the American Stock Exchange.

(2) Pursuant to Rule 416, there are also being registered such additional shares of Common Stock as may become issuable pursuant to anti-dilution provisions of the warrants.

The Registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the registration statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

Subject to Completion, Dated June , 1995

PROSPECTUS

494,928 Shares

ENZO BIOCHEM, INC.

Common Stock

This Prospectus relates to the offering by certain creditors (the "Creditors") of Enzo Biochem, Inc., a New York corporation ("Enzo" or the "Company"), to whom the Company had been indebted of up to an aggregate of 284,928 shares of Common Stock, par value \$ .01 per share ("Common Stock"), of Enzo, which shares were issued to the Creditors in May 1995 in private transactions pursuant to Section 4(2) of the Securities Act of 1933, as amended (the "Act") primarily in consideration of an aggregate of \$2,853,976 of indebtedness owed or to be owed by the Company to the Creditors, which obligations have been satisfied through the issuance of such Common Stock. This Prospectus also relates to the offering by Granmill Properties Limited ("Granmill") and Stockton Group Nominees Inc. ("Stockton") of (i) an aggregate of 100,000 shares of Common Stock which shares have been issued in private transactions pursuant to Regulation S promulgated under the Act prior to the date hereof and (ii) an aggregate of 110,000 shares of Common Stock which may be issued by the Company upon exercise of outstanding Warrants issued to Granmill and Stockton in private transactions pursuant to Regulation S promulgated under the Act prior to the date hereof. The Creditors, Granmill and Stockton are sometimes referred to collectively herein as the "Selling Stockholders". The Company will not receive any proceeds from the sale of such shares of Common Stock by the Selling Stockholders. The shares of Common Stock offered from time to time by the Selling Stockholders are hereinafter referred to as the "Shares." The Shares may be sold from time to time directly by the Selling Stockholders or by pledgees, donees, transferees or other successors in interest. Alternatively, the Shares may be offered from time to time by the Selling Stockholders to or through brokers or dealers who may act solely as agent, or may acquire shares as principal. The distribution of the Shares may be effected in one or more transactions that take place on the American Stock Exchange, including block trades, ordinary broker's transactions, privately negotiated transactions or through sales to one or more broker/dealers for resale of such securities as principals, at market prices prevailing at the time of sale, at prices related to such prevailing market prices or at negotiated prices. Usual and customary or specifically negotiated brokerage fees or commissions may be paid by these holders in connection with such sales. In connection with such sales, the Selling Stockholders and any participating brokers or dealers may be deemed "underwriters" as such term is defined in the Securities Act of 1933, as amended.

None of the proceeds from the sale of the Shares by the Selling Stockholders will be received by the Company. The proceeds from the exercise of the Warrants by Granmill and Stockton will be received by the Company. There can be no assurance, however, that either

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of Granmill or Stockton will exercise their respective Warrants. The Company will bear all expenses (other than underwriting discounts and selling commissions, state and local transfer taxes, and fees and expenses of counsel or other advisers to the Selling Stockholders) in connection with the registration of the Shares being offered by the Selling Stockholders, except that Stockton

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AN INVESTMENT IN THE SHARES OFFERED HEREBY INVOLVES A HIGH DEGREE OF RISK.

SEE "RISK FACTORS" FOR A DISCUSSION OF CERTAIN FACTORS THAT SHOULD BE CONSIDERED BY PROSPECTIVE INVESTORS.

THESE SECURITIES HAVE NOT BEEN APPROVED OR DISAPPROVED BY THE SECURITIES AND EXCHANGE COMMISSION OR ANY STATE SECURITIES COMMISSION NOR HAS THE SECURITIES AND EXCHANGE COMMISSION OR ANY STATE SECURITIES COMMISSION PASSED UPON THE ACCURACY OR ADEQUACY OF THIS PROSPECTUS. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

The Common Stock of the Company is traded on the American Stock Exchange. On June 12 1995, the reported closing price of the Common Stock on the American Stock Exchange was \$11.00 per share.

The date of this Prospectus is \_\_\_\_\_, 1995

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No dealer, salesman or any other person has been authorized to give any information or to make any representations in connection with this offering other than those contained in this Prospectus and, if given or made, such information or representations must not be relied upon as having been authorized by the Company or by any other person. This Prospectus does not constitute an offer to sell or a solicitation of an offer to buy any securities other than the registered securities to which it relates or an offer to or solicitation of any person in any jurisdiction in which such offer or solicitation would be unlawful. Neither the delivery of this Prospectus nor any sale or distribution made hereunder shall, under any circumstances, create any implication that there has been no change in the affairs of the Company since the date hereof.

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### AVAILABLE INFORMATION

The Company is subject to the informational requirements of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and in accordance therewith files reports, proxy statements and other information with the Securities and Exchange Commission (the "Commission"). Such materials may be inspected and copied at the public reference facilities maintained by the Commission at 450 Fifth Street, N.W., Washington, D.C. 20549, and at the Commission's regional offices located at 7 World Trade Center, 13th Floor, New York, New York 10048 and Northwestern Atrium Center, 500 West Madison Street, Suite 1400, Chicago, Illinois 60661. Copies of such material can be obtained from the Public Reference Section of the Commission at 450 Fifth Street, N.W., Washington, D.C. 20549, at prescribed rates.

The Company's reports, proxy statements and other information filed with the Commission may also be inspected and copied at the American Stock Exchange, 86 Trinity Place, New York, New York, on which the Company's Common Stock is listed for trading.

This Prospectus does not contain all the information set forth in the Registration Statement on Form S-3 filed by the Company with the Commission (the "Registration Statement") with respect to the securities to which this

Prospectus relates, certain parts of which are omitted in accordance with the rules and regulations of the Commission. For further information with respect to the Company and the shares offered hereby, reference is made to the Registration Statement, including the exhibits thereto. Each summary in this Prospectus of information included in the Registration Statement or any exhibit thereto is qualified in its entirety by reference to such information or exhibit.

#### INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The Company hereby incorporates by reference the following documents filed with the Securities and Exchange Commission:

- (a) The Registrant's Annual Report on Form 10-K for the fiscal year ended July 31, 1994;
- (b) The Registrant's Annual Report on Form 10-K/A for the fiscal year ended July 31, 1994;
- (c) The Registrant's Quarterly Report on Form 10-Q for the quarter ended October 31, 1994;
- (d) The Registrant's Quarterly Report on Form 10-Q for the quarter ended January 31, 1995; and Form 10-Q/A for the quarter ended January 31, 1995;

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- (e) The Registrant's Quarterly Report on Form 10-Q for the quarter ended April 30, 1995;
- (f) The Registrant's definitive Proxy Statement, dated December 2, 1994, as filed with the Securities and Exchange Commission in connection with the Registrant's Annual Meeting of Shareholders; and
- (g) The description of the Registrant's Common Stock contained in the Registrant's registration statement on Form 8-A filed under the Exchange Act, including any amendment or report filed for the purpose of updating such description.

All documents filed by the Company with the Commission pursuant to Section 13(a), 13(c), 14 or 15(d) of the Exchange Act subsequent to the date hereof, and prior to the termination of the offering made hereby, shall be deemed to be incorporated by reference into this Prospectus. Any statement contained in a document incorporated by reference herein shall be deemed to be modified or superseded for purposes of this Prospectus to the extent that a statement contained herein or in any other subsequently filed document which also is incorporated by reference herein modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Prospectus.

The Company will provide a copy of any documents incorporated by reference herein (excluding exhibits to the documents so incorporated, unless such exhibits are specifically incorporated by reference into the information that this prospectus incorporates), free of charge, to each person to whom this Prospectus is delivered, upon written or oral request to Enzo Biochem, Inc., 60 Executive Blvd., Farmingdale, New York 11735, Attention: Corporate Secretary; telephone (516) 755-5500.

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# THE COMPANY

Enzo Biochem, Inc. (the "Company" or "Enzo") employing biotechnology, develops, manufactures and markets health care products, and also provides medical diagnostic services to the medical community. The business activities of the Company are performed by one of the Company's three wholly-owned subsidiaries--Enzo Diagnostics, Inc., Enzo Therapeutics, Inc., and Enzo Clinical Labs, Inc. ("Enzo Diagnostics", "Enzo Therapeutics" and "EnzoLabs", respectively). These activities are: (1) diagnostic and research product development, manufacture and marketing through Enzo Diagnostics, (2) therapeutic product research and development through Enzo Therapeutics, and (3) the operation of a clinical reference laboratory through EnzoLabs.

For the fiscal year ended July 31, 1994 (fiscal 1994), approximately 23% of the Company's operating revenues was derived from product sales and approximately 77% was derived from clinical reference laboratory services. For the fiscal years ended July 31, 1993 and 1992 (fiscal 1993 and fiscal 1992, respectively), approximately 11% and 10%, respectively, of the Company's operating revenues were derived from clinical reference laboratory services.

The Company's principal executive offices are located at 60 Executive Boulevard, Farmingdale, New York 11735, and its telephone number is (516) 755-5500

#### RISK FACTORS

In evaluating the Company and its business, prospective purchasers of the Shares offered hereby should consider carefully the following factors in evaluating the Company and its operations:

LITIGATION WITH CALGENE, INC. In March 1993, the Company filed suit in the United States District Court for the District of Delaware charging patent infringement and acts of unfair competition against Calgene, Inc. and seeking a declaratory judgment of invalidity concerning Calgene, Inc.'s antisense patent. On February 9, 1994 the Company filed a second suit in the United States District Court for the District of Delaware charging Calgene with infringement of a second antisense patent owned by the Company. Calgene has filed a counterclaim in the second Delaware action seeking a declaration that a third patent belonging to the Company is invalid. The two Delaware actions have been consolidated and were tried to the Court in April 1995. The parties are awaiting the Court's decision. In addition, the Company filed suit on March 22, 1994 in the United States District Court for the Western District of Washington against Calgene and the Fred Hutchinson Cancer Research Center, alleging that the defendants had conspired to issue a false and misleading press release regarding a supposed "patent license" from Hutchinson to Calgene, and conspired to subvert the Company's antisense patents by improperly using confidential

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information to challenge them in the Patent Office. The Complaint further charge that Hutchinson is infringing and inducing Calgene to infringe the Company's antisense patents. There can be no assurance that the Company will be successful in any of the foregoing matters or that Calgene, Inc. and/or Hutchinson will not be successful. However, even if the Company is not successful management does not believe there will be a significant monetary impact.

COMPETITION; TECHNOLOGICAL ADVANCES BY OTHERS. Competitors engaged in genetic engineering in the United States and abroad are numerous and include, among others, major pharmaceutical, energy, food and chemical companies, as well as specialized genetic engineering firms. Many of the large corporations which are involved in genetic engineering have substantially greater resources than the Company and have the capability of developing products which compete directly with the Company's products. Genetic engineering has undergone, and is expected to continue to undergo, rapid and significant technological change. New developments in recombinant DNA, monoclonal antibody and other biotechnological processes are expected to continue at a rapid pace in both industry and academia. Although the Company believes that its products will be commercially viable, no assurance can be given that other developments will not render the Company's products uneconomical or obsolete, or that the Company's products can be marketed successfully.

SHARES ELIGIBLE FOR FUTURE SALE. Registration statements filed by the Company with the Securities and Exchange Commission had been declared effective with respect to significant amounts of the Company's Common Stock. Sales of Common Stock pursuant to such registration statements may have an adverse effect on the market price of the Common Stock.

UNCERTAINTY OF PRODUCT DEVELOPMENT. The products being pursued by the Company 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 the Company's efforts will result in products with valuable commercial applications.

UNCERTAINTY OF PATENT PROTECTION; PROPRIETARY TECHNOLOGY. The Company has filed applications for United States and foreign patents covering certain aspects of its technology, but there is no assurance that pending patents will issue or as to the degree of protection which any issued patent might afford. The Company also utilizes certain unpatented proprietary technology. There is no assurance that others may not independently develop similar technology.

RETENTION OF KEY PERSONNEL. The specialized scientific nature of the Company's business requires the Company to attract and retain personnel with a wide variety of scientific capabilities. To a large extent, the Company's success in developing proprietary technological products has been the result of the effective efforts of the Company's internal scientific staff and its experience and talent. Since its inception an insignificant number of

key employees have left the Company. The Company has elected not to pursue the purchase of key man insurance on any of its officers. There can be no assurance, however, that the Company will continue to attract and retain personnel of high scientific caliber.

LAWS AND REGULATIONS. In order to manufacture and market therapeutic and diagnostic products, prior clearance of regulatory agencies, in particular the FDA and similar agencies in other countries, must be obtained. The Company has an in-house regulatory department to assist in the preparation and filing of documentation to expedite FDA approvals and patent issuances. The process of obtaining FDA and corresponding foreign approvals is likely to be costly and time consuming, and there can be no assurance that such approvals will be granted. The process of obtaining approvals for noninvasive diagnostic products is significantly less stringent than approvals for therapeutic products. The extent of potentially adverse government regulations which might arise from future legislation or administrative action cannot be predicted.

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## PRO FORMA (UNAUDITED) FINANCIAL INFORMATION

The following unaudited pro forma consolidated balance sheet gives effect to (i) the issuance by the Company of an aggregate of 284,928 shares of Common Stock to the Creditors primarily in consideration of an aggregate of \$2,853,976 amount of indebtedness owed or owing by the Company to the Creditors and (ii) the exercise in March 1995 of Warrants previously issued to Granmill and Stockton resulting in the receipt by the Company of gross proceeds of \$1,012,500 and the issuance of 50,000 shares of the Company's Common Stock to each of Granmill and Stockton. The pro forma consolidated balance sheets assume such issuances occurred as of July 31, 1994 and April 30, 1995, respectively. Such pro forma information should be read in conjunction with the Company's audited historical financial statements and related notes thereto, which are incorporated by reference in this Prospectus.

<TABLE> <CAPTION>

### ASSETS

	July 31,	1994	April 30, 1995					
		ands) Pro Forma						
<s></s>	<c></c>	<c></c>	<c></c>	<c></c>				
Total current assets		39,294	51,977	51,977				
Total assets	. \$ 65,043	\$ 68,910	\$ 83,856					
	LIABILITIES	AND STOCKHOLD	ERS' EQUITY					
Total current								
liabilities	. \$ 8 <b>,</b> 597	\$ 8,647	\$ 6,734	4,730				
Other liabilities	5,201	5,201	5,247	5,247				
Total liabilities	\$13 <b>,</b> 798	\$ 13,848	\$11 <b>,</b> 981	\$ 9 <b>,</b> 977				

  |  |  |  |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; 19,822,200 (actual) at July 31, 1994; 20,207,128 (pro forma) at July 31, 1994; 19,953,800 (actual) at April 30, 1995; 20,238,728 (pro forma)

<\$>	<c></c>	<c></c>	<c></c>	<c></c>
Additional paid-in capital	71,753	75 <b>,</b> 566	72 <b>,</b> 860	75,661
Accumulated deficit	(20,706)	(20,706)	(1,185)	(1,185)
Total Stockholders' Equity	51,245	55,062	71,875	74,679
	\$65,043	\$ 68,910	\$83 <b>,</b> 856	\$ 84,656

</TABLE>

#### USE OF PROCEEDS

None of the proceeds from the sale of the shares by the Selling Stockholders will be received by the Company. The proceeds from the March 1995 exercise of the warrants previously exercised by Granmill and Stockton will be used for working capital. The proceeds, if any, received by the Company upon exercise of Warrants by Granmill and Stockton will be used for working capital purposes.

### THE OFFERING

The Company hereby offers an aggregate of up to 110,000 shares of its Common Stock by Granmill and Stockton upon the exercise of outstanding warrants issued to them by the Company. In August 1993 the Company issued, pursuant to Regulation S of the Act, to each of Granmill and Stockton, 450,000 shares of the Company's Common Stock in consideration received from each party of \$3,600,000. In connection with such purchases the Company granted to each of Granmill and Stockton an aggregate of 125,000 warrants to purchase shares of the Company's Common Stock at exercise prices ranging from \$8.00 to \$12.00. In September 1993 each of Granmill and Stockton exercised a portion of such warrants to purchase 20,000 shares of Common Stock of the Company. In March 1995 each of Granmill and Stockton exercised an additional portion of such warrants to purchase 50,000 shares of the Company's Common Stock. The remaining 55,000 warrants held by each of Granmill and Stockton are exercisable with respect to (i) 25,000 shares at an exercise price of \$8.00 per share during the period September 3, 1994 through September 2, 1999; (ii) 22,500 shares at an exercise price of \$9.60 per share during the period September 3, 1994 through September 2, 1999; (iii) 5,000 shares at an exercise price of \$8.00 per share during the period March 2, 1996 through September 2, 1998; and (iv) 2,500 shares at an exercise price of \$9.60 per share during the period March 2, 1996 through September 2, 1998. If all of the outstanding 110,000 warrants are exercised, of which there can be no assurance, the Company will receive gross proceeds of \$960,000.

# SELLING STOCKHOLDERS

The following table sets forth certain information, as of the date hereof, with respect to the Shares held by each Selling Stockholder.

The Creditors were issued the 284,928 shares of Common Stock being offered by them hereby in May 1995 primarily in exchange for the cancellation of an aggregate of \$2,853,976 owed or to be owed by the Company to them. The Company is currently incurring additional indebtedness to certain of the Creditors who continue to render legal services to the Company. The shares offered hereby by the Creditors were received primarily in cancellation of indebtedness owed or owing to each Creditor incurred in connection with legal services performed or to be performed for the Company. The number

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of shares of Common Stock issued in exchange for the indebtedness was negotiated between the Company and each of the Creditors. All of the indebtedness owing to the Creditors constituted unsecured obligations of the Company owing in payment of outstanding professional fees. Each of Granmill and Stockton, two European investors, had previously purchased 450,000 shares of Common Stock from the Company in August 1993 for which each paid a purchase price of \$3,600,000. In connection with such purchases, each of Granmill and Stockton were issued an aggregate of 125,000 warrants to purchase shares of Common Stock at exercise prices ranging from \$8.00 to \$12.00, which warrants are exercisable at various dates commencing on the date of issuance. In September 1993, each of Granmill and Stockton exercised warrants to purchase 20,000 shares of Common Stock at an aggregate exercise price each of \$160,000. In March 1995, each of Granmill and Stockton exercised warrants to purchase 50,000 shares of Common Stock at an

aggregate price each of \$506,250. None of the Selling Stockholders is an affiliate of the Company. The shares offered by this Prospectus may be offered from time to time by the Selling Shareholders named below.

<TABLE>

<CAPTION>

Name of Selling Shareholder	Indebtedness Converted in	Number of Shares Owned to Before the Offering	Shares Being	After the
<\$>	<c></c>	<c></c>	<c></c>	<c></c>
Anderson Kill Olick				
& Oshinsky, P.C.	\$1,102,955	5,000(2)	110,296	5,000(2)
Lieberman & Nowak	\$1,000,000	2,590	100,000	2,590
Bachner Tally Polevoy &				
Misher	\$215,453	0	21,546	0
Serle Mosoff	\$140,568	0	14,200	0
Vossius & Partner	\$100,000	0	9,639	0
Graubard Mollen				
Pomerantz & Shapiro	\$90,000	9,000	9,000	9,000
Stadtmauer, Bailkin LLP	\$70,000	0	7,000	0
John J. Santalone	\$70 <b>,</b> 000	1,466	6,747	1,466
Jackson, Lewis, Schnitzler				
& Krupman	\$35,000	0	3,500	0
Wilson Elser Moskantz &				
Dicker	\$30,000	0	3,000	0
Granmill Properties				
Limited	0	851,500(3)	50,000	851,500(3)
Stockton Group				
Nominees Inc.	0	97 <b>,</b> 500(3)	50,000	97,500(3)

<FN>

(1) Assumes that all Shares offered by this Prospectus are sold.

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- (2) Includes 2,500 shares underlying options which are currently exercisable or which may be exercisable within 60 days.
- (3) Includes 47,500 shares of Common Stock issuable to each of Granmill and Stockton upon exercise of warrants which are currently exercisable. Does not include 7,500 shares of Common Stock issuable to each of Granmill and Stockton upon exercise of warrants which are not currently exercisable or exercisable within 60 days of the date hereof. The Company has been advised that Granmill and Stockton may be deemed a group under the Securities Exchange Act of 1934. See "The Offering", above.

</TABLE>

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# PLAN OF DISTRIBUTION

This Prospectus may be used from time to time by the Selling Stockholders who offer the Shares registered hereby for sale in transactions in which they are or may be deemed to be underwriters within the meaning of the Securities Act of 1933. The Shares may be sold from time to time directly by the Selling Stockholders or by pledgees, donees, transferees or other successors in interest. Alternatively, the Shares may be offered from time to time by the Selling Stockholders to or through brokers or dealers who may act solely as agent, or may acquire shares as principal. The distribution of the Shares may be effected in one or more transactions that may take place on the American Stock Exchange, including block trades, ordinary broker's transactions, privately negotiated transactions or through sales to one or more broker/dealers for resale of such securities as principals, at market prices prevailing at the time of sale, at prices related to such prevailing market prices or at negotiated prices. Usual and customary or specifically negotiated brokerage fees or commissions may be paid by these holders in connection with such sales. In connection with such sales, the Selling Stockholders and any participating brokers or dealers may be deemed "underwriters" as such term is defined in the Securities Act of 1933, as amended.

## EXPERTS

The consolidated financial statements and schedules of Enzo Biochem, Inc. appearing in Enzo Biochem, Inc.'s Annual Report (Form 10-K) for the year ended July 31, 1994, have been audited by Ernst & Young LLP, independent auditors, as set forth in their report thereon included therein and incorporated herein by reference. Such consolidated financial statements and schedules are incorporated herein by reference in reliance upon such report given upon the

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### LEGAL MATTERS

Certain legal matters relating to the Shares will be passed upon for the Company by Bryan Cave, 245 Park Avenue, New York, New York 10167-0034. Certain members of Bryan Cave are beneficial and/or record owners of securities of the Company.

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ENZO BIOCHEM, INC.

494,928 Shares

PROSPECTUS

, 1995

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#### PART 11

# INFORMATION NOT REQUIRED IN THE PROSPECTUS

## Item 14. OTHER EXPENSES OF ISSUANCES AND DISTRIBUTION

Total.		•	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	\$55,399
																	+==
MISCEII	anec	ous.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1,000
Miscella	2200					-											1 000
Americar	n St	cocl	c E	kcl	nar	nge	e I	iis	sti	inc	J .						17,500
Accounta	ants	s' E	ee:	5 8	anc	d E	cxi	per	ıse	28	•	٠	•	•	•	•	5,000
_				-													
Legal Fe	200	and	l E	xn.	n د	: 0	3										30.000
S.E.C. H	Regi	sti	rat:	ior	l.												\$ 1 <b>,</b> 899

Item 15. INDEMNIFICATION OF DIRECTORS AND OFFICERS.

ARTICLE V of the Registrant's By-Laws provides as follows:

Section 1. INDEMNIFICATION-THIRD PARTY AND DERIVATIVE ACTIONS.

- (a) The Corporation shall indemnify any person made, or threatened to be made, a party to an action or proceeding (other than one by or in the right of the Corporation to procure a judgment in its favor), whether civil or criminal, including an action by or in the right of any other corporation of any type or kind, domestic or foreign, or any partnership, joint venture, trust, employee benefit plan or other enterprise, which any director or officer of the Corporation served in any capacity at the request of the Corporation, by reason of the fact that he, his testator or intestate, is or was a director or officer of the Corporation, by reason of the fact that he, his corporation, partnership, joint venture, trust, employee benefit plan or other enterprise in any capacity, against judgments, fines, amounts paid in settlement and expenses (including attorneys' fees) incurred in connection with any such action or proceeding, or any appeal therein, provided that no indemnification may be made to or on behalf of such person if (i) his acts were committed in bad faith or were the result of his active and deliberate dishonesty and were material to such action or proceeding or (ii) he personally gained in fact a financial profit or other advantage to which he was not legally entitled
  - (b) The Corporation shall indemnify any person made, or threatened to

be made, a party to an action by or in the right of the Corporation to procure a judgment in its favor by reason of the fact that he, his testator or intestate, is or was a director or officer of the Corporation, or is or was serving at the request of the Corporation as a director or officer of any other corporation of any type or kind, domestic or foreign, or of any partnership, joint venture, trust, employee benefit plan or other enterprise, against

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judgments, fines, amounts paid in settlement and expenses (including attorneys' fees) incurred in connection with such action, or any appeal therein, provided that no indemnification may be made to or on behalf of such person if (i) his acts were committed in bad faith or were the result of his active and deliberate dishonesty and were material to such action or (ii) he personally gained in fact a financial profit or other advantage to which he was not legally entitled.

- (c) The termination of any civil or criminal action or proceeding by judgment, settlement, conviction or upon a plea of nolo contendre, or its equivalent, shall not in itself create a presumption that any such person has not met the standard of conduct set forth in this Section 1.
- (d) For the purpose of this Section 1: (i) the Corporation shall be deemed to have requested a person to serve an employee benefit plan where the performance by such person of his duties to the Corporation also imposes duties on, or otherwise involve services by, such person to the plan or participants or beneficiaries of the plan; and (ii) excise taxes assessed on a person with respect to an employee benefit plan pursuant to applicable law shall be considered fines.

### Section 2. PAYMENT OF INDEMNIFICATION; REPAYMENT

- (a) A person who has been successful, on the merits or otherwise, in the defense of a civil or criminal action or proceeding of the character described in Section I of this Article V shall be entitled to indemnification as authorized in such Section.
- (b) Except as provided in paragraph (a) of this Section 2, any indemnification under Section 1 of this Article V, unless ordered by a court, shall be made by the Corporation only if authorized in the specific case:
- (i) by the Board of Directors acting by a quorum consisting of directors who are not parties to the action or proceeding giving rise to the indemnity claim upon a finding that the director or officer has met the standard of conduct set forth in Section I of this Article V; or
- (ii) if a quorum under the foregoing clause (i) is not obtainable or, even if obtainable, a quorum of disinterested directors so directs:
  - (A) by the Board of Directors upon the opinion in writing of independent legal counsel that indemnification is proper in the circumstances because the standard of conduct set forth in Section I of this Article V has been met by such director or officer, or
  - (B) by the shareholders of the Corporation upon a finding that the director or officer has met such standard of conduct.

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- (c) Expenses Incurred by a director or officer in defending a civil or criminal action or proceeding shall be paid by the Corporation in advance of the final disposition of such action or proceeding upon receipt of an undertaking by or on behalf of such director or officer to repay such amount in case he is ultimately found, in accordance with this Article V, not to be entitled to indemnification or, where indemnity is granted, to the extent the expenses so paid exceed the indemnification to which he is entitled.
- (d) Any indemnification of a director or officer of the Corporation under Section I of this Article V, or advancement of expenses under paragraph (c) of this Section 2, shall be made promptly, and in any event within 60 days, upon the written request of the director of officer.

Section 3. ENFORCEMENT; DEFENSES. The right to indemnification or advancement of expenses granted by this Article V shall be enforceable by the director or officer in any court of competent jurisdiction if the Corporation denies such request, in whole or in part, or if no disposition thereof is made within 60 days after written request by the director or officer. Such person's expenses incurred in connection with successfully establishing his right to indemnification, in whole or in part, in any such action shall also be indemnified by the Corporation. It shall be a defense to any such action (other

than an action brought to enforce a claim for the advancement of expenses under Section 2 of this Article V where the required undertaking has been received by the Corporation) that the claimant has not met the standard of conduct set forth in Section I of this Article V, but the burden of providing such defense shall be on the Corporation. Neither the failure of the Corporation (including its Board of Directors, its independent legal counsel, and its shareholders) to have made a determination that indemnification of the claimant is proper in the circumstances, nor the fact that there has been an actual determination by the Corporation (including its Board of Directors, its independent legal counsel, and its shareholders) that indemnification of the claimant is not proper in the circumstances, shall be a defense to the action or create a presumption that the claimant is not entitled to indemnification.

Section 4. SURVIVAL, SAVINGS CLAUSE; PRESERVATION OF OTHER RIGHTS.

- (a) The foregoing indemnification provisions shall be deemed to be a contract between the Corporation and each director and officer who serves in such capacity at any time while these provisions, as well as the relevant provisions of the New York Business Corporation Law, are in effect and any repeal or modification thereof shall not affect any right or obligation then existing with respect to any state of facts then or previously existing or any action or proceeding previously or thereafter brought or threatened based in whole or in part upon any such state of facts. Such a contract fight may not be modified retroactively without the consent of such director or officer.
- (b) If this Article V or any portion hereof shall be invalidated on any ground by any court of competent jurisdiction, then the Corporation shall nevertheless indemnify each director or officer of the Corporation against judgments, fines, amounts paid

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in settlement and expenses (including attorneys' fees) incurred in connection with any actual or threatened action or proceeding, whether civil or criminal, including any actual or threatened action by or in the right of the Corporation, or any appeal therein, to the full extent permitted by any applicable portion of this Article V that shall not have been invalidated and to the full extent permitted by applicable law.

(c) The indemnification provided by this Article V shall not be deemed exclusive of any other rights to which those indemnified may be entitled under any by-law, agreement, vote of shareholders or directors or otherwise, both as to action in his official capacity and as to action in another capacity while holding such office, and shall continue as to a person who has ceased to be a director or officer and shall inure to the benefit of the heirs, executors and administrators of such a person. The Corporation is hereby authorized to provide further indemnification if it deems advisable by resolution of shareholders or directors, by amendment of these by-laws or by agreement.

Section 5. INSURANCE. The Corporation may purchase and maintain insurance:

- (a) to indemnify the Corporation for any obligation which it incurs as a result of the indemnification of directors and officers under the provisions of this Article  $V_{\bullet}$
- (b) to indemnify directors and officers in instances in which they may be indemnified by the Corporation under the provisions of this Article  ${\tt V}$ , and
- (c) to indemnify directors and officers in instances in which they may not otherwise be indemnified by the Corporation under the provisions of this Article V, provided that the contract of insurance covering such directors and officers pursuant to the foregoing paragraph (c) of Section 4 of this Article V shall provide, in a manner acceptable to the superintendent of insurance, for a retention amount and for co-insurance, and provided, further, that no insurance under this Article V may provide for any payment, other than the cost of defense, to or on behalf of any director or officer if a judgment or other final adjudication adverse to the insured director or officer establishes (i) that his acts of active and deliberate dishonesty were material to the cause of action so adjudicated or (ii) that the director or officer personally gained in fact a financial profit or other advantage to which he was not legally entitled.

Section 6. INDEMNIFICATION OF PERSONS NOT DIRECTORS OR OFFICERS OF THE CORPORATION. The Corporation may, by resolution adopted by the Board of Directors of the Corporation, indemnify any person not a director or officer of the Corporation, who is made, or threatened to be made, a party to an action or proceeding, whether civil or criminal, by reason of the fact that he, his testator or intestate, is or was an employee or other agent of the Corporation, against judgments, fines, amounts paid in settlement and expenses (including attorneys' fees) incurred in connection with such action or proceeding, or any appeal therein, provided that no indemnification may be made to or on behalf of such person if (i) his acts were committed in bad faith or were the result of

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dishonesty, and such acts were material to such action or proceeding, or (ii) he personally gained in fact a financial profit or other advantage to which he was not legally entitled.

Section 7. RETROACTIVITY. The right to indemnification conferred by this Article V shall be retroactive to events occurring prior to the adoption of this Article V to the fullest extent permitted by law.

 $\label{eq:continuous} \mbox{Article 12 of the Registrant's Certificate of Incorporation provides} \\ \mbox{as follows:}$ 

"12. No director of the Corporation shall be liable to the Corporation or its shareholders for damages for any breach of duty in such capacity, provided that nothing contained in this Article shall eliminate or limit the liability of a director (i) if a judgment or other final adjudication adverse to him establishes that his acts or omissions were in bad faith or involved intentional misconduct or a knowing violation of law, or that he personally gained in fact a financial profit or other advantage to which he was not legally entitled, or that his acts violated Section 719 of the New York Business Corporation Law or (ii) for any act or omission prior to July 8, 1988."

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### Item 16. EXHIBITS

EXHIBIT NO. DESCRIPTION

- 4.1 Offshore Securities Subscription Agreement between the Registrant and Granmill Properties Limited dated August 18, 1993 previously filed as Exhibit 4.1 to the Registrant's Registration Statement on Form S-3 (File No. 33-68542) and incorporated herein by reference.
- 4.2 Offshore Securities Subscription Agreement between the Registrant and Stockton Group Nominees Inc. dated August 18, 1993 previously filed as Exhibit 4.2 to the Registrant's Registration Statement on Form S-3 (File No. 33-68542) and incorporated herein by reference.
- 5.1 Opinion of Bryan Cave.
- 23.1 Consent of Ernst & Young LLP.
- 23.2 Consent of Bryan Cave (included in Exhibit 5.1).

### Item 17. UNDERTAKINGS.

The undersigned registrant hereby undertakes:

- (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
- (i) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement.
- (2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (and, where

applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

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#### SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement or amendment thereto to be signed on its behalf by the undersigned, thereunto duly authorized, in the Town of Farmingdale, State of New York, on this 12th day of June, 1995.

ENZO BIOCHEM, INC.

By: /s/ Elazar Rabbani
-----Elazar Rabbani, Ph.D, President

## POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that each individual whose signature appears below constitutes and appoints ELAZAR RABBANI and BARRY WEINER, and each of them, his true and lawful attorneys-in-fact and agents with full power of substitution and resubstitution, for him and in his name, place and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this Registration Statement, and to file the same with all exhibits thereto, and all documents in connection therewith, with the Securities and Exchange Commission granting into said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing, requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or any of them, or their or his substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this registration statement or amendment thereto has been signed by the following persons in the capacities and on the date indicated.

Signature Title Date ---/s/ Elazar Rabbani President and Chairman June 12, 1995

Elazar Rabbani (Principal Executive Officer)

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/s/ Shahram K. Rabbani	Executive Vice President,	June 12, 1995
Shahram K. Rabbani	Treasurer and Director (Principal Financial and Accounting Officer)	
/s/ Barry W. Weiner	Executive Vice President,	June 12, 1995
Barry W. Weiner	Secretary and Director	
John B. Sias	Director	, 1995
John J. Delucca	Director	, 1995
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# EXHIBIT INDEX

Exhibit No.	Description	Page No.
5.1	Opinion of Bryan Cave	
23.1	Consent of Ernst & Young LLP	
23.2	Consent of Bryan Cave (included in Exhibit 5.1)	

## BRYAN CAVE 245 PARK AVENUE NEW YORK, NEW YORK 10167

June 13, 1995

Enzo Biochem, Inc. 60 Executive Boulevard Farmingdale, New York 11735

Dear Sirs:

We refer to the Registration Statement on Form S-3 filed by you with the Securities and Exchange Commission relating to 494,928 shares of Common Stock, \$.01 par value per share (the "Shares"), of Enzo Biochem, Inc. (the "Company").

We have examined and are familiar with originals, or copies certified or otherwise identified to our satisfaction, of such corporate records of the Company, certificates of officers of the Company and of public officials and such other documents as we have deemed appropriate as a basis for the opinions expressed below.

Based upon the foregoing, we are of the opinion that:

- The Company is duly incorporated and existing under the laws of the State of New York;
- The Shares, including those issuable upon exercise of the Warrants referred to in the Registration Statement of which this is an Exhibit, have been duly authorized; and
- 3. The Shares (including those issuable upon due exercise of the Warrants in accordance with their terms) being sold by the selling stockholders, when sold as contemplated in the Registration Statement, will be legally issued, fully paid and non-assessable.

We hereby consent to the use of this opinion in the above-mentioned Registration Statement and to the reference to our name under the heading "Legal Opinions" in the Prospectus constituting a part of such Registration Statement.

Very truly yours,

BRYAN CAVE

# CONSENT OF ERNST & YOUNG LLP

We consent to the reference to our firm under the caption "Experts" in the Registration Statement (Form S-3, No. 33-00000) and related Prospectus of Enzo Biochem, Inc. for the registration of 494,928 shares of its common stock and to the incorporation by reference therein of our report dated October 20, 1994, with respect to the consolidated financial statements and schedules and Enzo Biochem, Inc. included in its Annual Report (Form 10-K) for the year ended July 31, 1994, filed with the Securities and Exchange Commission.

Ernst & Young LLP

Melville, New York June 12, 1995