



UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

DIVISION OF
CORPORATION FINANCE

Mail Stop 3561

September 12, 2017

Via E-Mail

Barry W. Weiner
Chief Financial Officer
Enzo Biochem, Inc.
527 Madison Avenue
New York, NY 10022

**Re: Enzo Biochem, Inc.
Registration Statement on Form S-3
Filed September 1, 2017
File No. 333-220312**

Dear Mr. Weiner:

This is to advise you that we have not reviewed and will not review your registration statement.

Please refer to Rules 460 and 461 regarding requests for acceleration. We remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, action or absence of action by the staff.

Please contact Jonathan Burr at (202) 551-5833 with any questions.

Sincerely,

/s/ James Lope (for)

John Reynolds
Assistant Director
Office of Beverages, Apparel, and
Mining

cc: Robert H. Cohen, Esq.
McDermott Will & Emery LLP