

June 29, 2005

VIA FACSIMILE (202) 772-9217 and EDGAR

Office of the Secretary  
Securities and Exchange Commission  
450 Fifth Street, N.W.  
Washington, D.C. 20549

Attn: Jim B. Rosenberg  
Senior Assistant Chief Accountant

Re: Enzo Biochem, Inc.  
Form 10-K for the fiscal year ended July 31, 2004  
Filed October 14, 2004  
File No. 001-09974

Dear Mr. Rosenberg:

Enzo Biochem, Inc. ("Enzo") respectfully requests an extension until July 11, 2005 to respond to the Commission's comments contained in that certain letter addressed to Barry W. Weiner, President of Enzo, dated June 16, 2005, from Jim B. Rosenberg, Senior Assistant Chief Accountant.

As a result of timing issues relating to previously arranged vacations scheduled amongst Enzo and certain of its advisors, Enzo requests this extension in order that it may adequately respond to the comments.

We thank you for your consideration.

Very truly yours,

/s/ BARRY WEINER  
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cc: Mr. Anthony Masharelli  
Ms. Tabatha Akins  
Mr. Oscar Young  
Mr. Herbert Bass