



DIVISION OF  
CORPORATION FINANCE

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

May 14, 2018

Steven Shallcross  
Interim Chief Executive Officer and Chief Financial Officer  
Synthetic Biologics, Inc.  
9605 Medical Center Drive, Suite 270  
Rockville, MD 20850

**Re: Synthetic Biologics, Inc.**  
**Registration Statement on Form S-3**  
**Filed May 7, 2018**  
**File No. 333-224728**

Dear Mr. Shallcross:

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 Dorrie Yale at 202-551-8776 with any questions.

Division of Corporation Finance  
Office of Healthcare & Insurance

cc: Leslie Marlow