



Synthetic Biologics, Inc.  
9605 Medical Center Drive, Suite 270  
Rockville, Maryland 20850

October 4, 2018

VIA EDGAR

U.S. Securities and Exchange Commission  
Division of Corporation Finance  
100 F Street, N.E.  
Washington, D.C. 20549  
Attention: Christine Westbrook

*Re: Synthetic Biologics, Inc.*  
*Registration Statement on Form S-1*  
File No. 333-227400

Dear Ms. Westbrook:

Synthetic Biologics, Inc. (the "Company") hereby requests that the effective date of the Company's Registration Statement on Form S-1, as amended (File No. 333-227400), be accelerated by the U.S. Securities and Exchange Commission to Tuesday, October 9, 2018 at 5:00 pm, New York City Time, or as soon as reasonably practicable thereafter.

The Company hereby authorizes Leslie Marlow and/or Patrick Egan of Gracin & Marlow, LLP to orally modify or withdraw this request for acceleration. Please contact Ms. Marlow at (516) 496-2223 or (212) 907-6457, or Mr. Egan at (914) 557-5574 with any questions you may have concerning this request, and please notify either of them when this request for acceleration has been granted.

Very truly yours,

Synthetic Biologics, Inc.

By: /s/ Steven A. Shallcross

Name: Steven A. Shallcross

Title: Interim Chief Executive Officer and Chief Financial  
Officer