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9605 Medical Center Drive, Suite 270 Rockville, Maryland 20850

August 20, 2018

VIA EDGAR

United States Securities and Exchange Commission Division of Corporation Finance Office of Healthcare & Insurance 100 F Street, NE Washington, D.C. 20549

Attention: Ms. Irene Paik

Ms. Christine Westbrook

Re: Synthetic Biologics, Inc.

Registration Statement on Form S-3

Filed August 1, 2018 File No. 333-226500

Dear Mss. Paik and Westbrook:

Synthetic Biologics, Inc. (the "Company") hereby requests acceleration of the effective date of the above-referenced Registration Statement on Form S-3 so that it may become effective at 5:00 p.m. (New York City Time) on Wednesday, August 22, 2018, or as soon thereafter as reasonably practicable.

The Company hereby authorizes its legal counsel, 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