

**COGENT BIOSCIENCES, INC.**

**200 Cambridge Park Drive, Suite 2500  
Cambridge, MA 02140**

**VIA EDGAR**

March 16, 2021

United States Securities and Exchange Commission  
Division of Corporation Finance  
Office of Life Sciences  
100 F Street, N.E.  
Washington, D.C. 20549

**Re: Cogent Biosciences, Inc.  
Registration Statement on Form S-3 (File No. 252873)**

To Whom it May Concern:

Pursuant to Rule 461 under the Securities Act of 1933, as amended (the "Act"), Cogent Biosciences, Inc. (the "Company") hereby requests that the effective date of the above-referenced registration statement (the "Registration Statement") be accelerated to March 18, 2021, at 5:00 p.m., Eastern Time, or as soon thereafter as practicable, unless we or our outside counsel, Gibson, Dunn & Crutcher LLP, request by telephone that such Registration Statement be declared effective at some other time. In making this acceleration request, the Company acknowledges that it is aware of its obligations under the Act.

Once the Registration Statement is effective, please orally confirm the event with our counsel, Gibson, Dunn & Crutcher LLP by calling Ryan A. Murr at (415) 393-8373.

Sincerely,

**COGENT BIOSCIENCES, INC.**

/s/ John Green

John Green  
Chief Financial Officer

cc: Ryan A. Murr, Gibson, Dunn & Crutcher LLP  
Branden C. Berns, Gibson, Dunn & Crutcher LLP