

July 12, 2021

**Via EDGAR Transmission**

United States Securities and Exchange Commission  
Division of Corporation Finance  
100 F Street, N.E.  
Washington, D.C. 20549-6010  
Attention: David Gessert  
Laura Crotty  
Jenn Do  
Daniel Gordon

**Re: Rapid Micro Biosystems, Inc.  
Registration Statement on Form S-1  
Filed July 12, 2021  
Registration No. 333-257431**

Ladies and Gentleman:

In accordance with Rule 461 of Regulation C of the General Rules and Regulations under the Securities Act of 1933, as amended, we hereby request the acceleration of the effective date of the above-referenced Registration Statement so that it will become effective on July 14, 2021, at 4:00 p.m., Eastern Time, or as soon thereafter as practicable, or at such later time as Rapid Micro Biosystems, Inc. (the "Company") or its counsel may request via telephone call to the staff. Please contact Wesley Holmes of Latham & Watkins LLP, counsel to the Company, at (617) 948-6027, or in his absence, Jennifer Yoon at (617) 880-4540, to provide notice of effectiveness, or if you have any other questions or concerns regarding this matter.

---

Sincerely yours,

**Rapid Micro Biosystems, Inc.**

By: /s/ Robert Spignesi

---

Robert Spignesi

President and Chief Executive Officer

cc: Wesley Holmes, Esq.  
Jennifer A. Yoon, Esq.

---