

**Unicycive Therapeutics, Inc.**  
**5150 El Camino Real, Suite A-32**  
**Los Altos, CA 94022**

June 14, 2021

**VIA EDGAR**

United States Securities and Exchange Commission  
100 F Street, N.E.  
Washington, D.C. 20549  
Attention: Celeste Murphy

**Re: Unicycive Therapeutics, Inc.**  
**Registration Statement on Form S-1**  
**Filed May 21, 2021**  
**File No. 333-256367**

Ladies and Gentlemen:

Pursuant to Rule 461 of the General Rules and Regulations under the Securities Act of 1933, as amended, Unicycive Therapeutics, Inc. (the "Company") respectfully requests that the effective date of the registration statement referred to above be accelerated so that it will become effective at 5:00 p.m., Eastern Daylight Time, on Wednesday, June 16, 2021, or as soon thereafter as possible.

Please notify Jeffrey Fessler of Sheppard, Mullin, Richter & Hampton LLP, counsel to the Company, at (201) 669-0478 as soon as possible as to the time the Registration Statement has been declared effective pursuant to this acceleration request.

UNICYCIVE THERAPEUTICS, INC.

By: /s/ Shalabh Gupta  
Name: Shalabh Gupta  
Title: Chief Executive Officer

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