

Unicycive Therapeutics, Inc.
4300 El Camino Real, Suite 210
Los Altos, CA 94022

August 22, 2022

VIA EDGAR

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

Attention: Christine Westbrook

Re: Unicycive Therapeutics, Inc.
Form S-3
File No. 333-266890

Ladies and Gentlemen:

Pursuant to Rule 461 of the General Rules and Regulations under the Securities Act of 1933, as amended (the "Act"), 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 4:00 p.m., Eastern Daylight Time, on Wednesday, August 24, 2022, or as soon thereafter as possible.

Please notify Jeffrey Fessler of Sheppard, Mullin, Richter & Hampton LLP, counsel to the Company, at (212) 634-3067 as soon as possible as to the time the Registration Statement has been declared effective pursuant to this acceleration request.

Thank you,

UNICYCIVE THERAPEUTICS, INC.

By: /s/ Shalabh Gupta

Name: Shalabh Gupta

Title: Chief Executive Officer
