April 17, 2024

Keith Murphy Executive Chairman Organovo Holdings, Inc. 11555 Sorrento Valley Road, Suite 100 San Diego, CA 92121

Re: Organovo Holdings, Inc.

Filed April 12,

File No. 333-278668

Dear Keith Murphy:

2024

This is to advise you that we have not reviewed and will not review your registration statement.

 $\,$  Please refer to Rules 460 and 461 regarding requests for acceleration. We remind you

that the company and its management are responsible for the accuracy and adequacy of their

disclosures, notwithstanding any review, comments, action or absence of action by the staff.

Please contact Doris

Stacey Gama at 202-551-3188 with any questions.

Sincerely,

Division of Corporation Finance

Office of Life Sciences

cc: Samantha Eldredge, Esq.