June 1, 2023

Mark Rosenblum Chief Financial Officer Salarius Pharmaceuticals, Inc. 2450 Holcombe Blvd., Suite X Houston, TX 77021

Re: Salarius

Pharmaceuticals, Inc.

Statement on Form S-3

Registration

Filed May 26, 2023 File No. 333-272249

Dear Mark Rosenblum:

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 Cindy

Polynice at 202-551-8707 with any questions.

Sincerely,

Division of Corporation Finance

Office of Life Sciences

cc:

Stephen M. Nicolai,

Esq.