

DIVISION OF CORPORATION FINANCE

May 17, 2024

Paul Mann Chief Executive Officer ASP Isotopes Inc. 1101 Pennsylvania Avenue NW, Suite 300 Washington, D.C. 20004

> Re: ASP Isotopes Inc. Registration Statement on Form S-3 Filed May 9, 2024 File No. 333-279267

Dear Paul Mann:

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 Juan Grana at 202-551-6034 with any questions.

Sincerely,

Division of Corporation Finance Office of Industrial Applications and Services

cc: Donald Ainscow, Esq.