



DIVISION OF
CORPORATION FINANCE

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

June 5, 2024

Paul E. Mann
Executive Chairman and Chief Executive Officer
ASP Isotopes Inc.
1101 Pennsylvania Avenue NW, Suite 300
Washington, DC 20004

Re: ASP Isotopes Inc.
Registration Statement on Form S-3
Filed May 31, 2024
File No. 333-279857

Dear Paul E. 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 Abby Adams at 202-551-6902 with any questions.

Sincerely,

Division of Corporation Finance
Office of Industrial Applications and
Services