

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-19 17:07:45

Date of Next Testing: 2027-05-18 17:07:45

Product Name: **D-Asparagine monohydrate**

CAS Number: 5794-24-1

Specifications & Purity: $\geq 99\%$

Lot #: E2311069

SKU #: **A110994**

Version: **0**

Analysis #: **129711**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.26700 %
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in HCL}(1+3))$	-32.3--30.3 (°)	-30.57000 °
Loss on drying	11.5-12.5 (%)	11.73000 %
Appearance (A110994)	White or off-white powder	White or off-white powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless to pale yellow transparent solution	pass	Pass



John Su
QA & QC Manager