

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-07-28 09:39:11  
 Date of Next Testing: 2026-07-27 09:39:11  
 Product Name: **L-Asparagine Monohydrate**  
 CAS Number: 5794-13-8  
 Specifications & Purity: 99%  
 Lot #: G2226069  
 SKU #: **A108223**  
**Analysis:** **118627**  
 Storage Temperature: Protected from light

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-10 (ppm)	4.60 ppm
Transmission(c=2, H <sub>2</sub> O, 430 nm)	98-100 (%)	98.15 %
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-280 (ppm)	120.00 ppm
Chloride (Cl <sup>-</sup> )	0-210 (ppm)	101.00 ppm
Iron(Fe)	0-10 (ppm)	5.30 ppm
Purity(Nonaqueous Titration)	99-100 (%)	99.79 %
Loss on drying	11.5-12.5 (%)	11.92 %
(As)Arsenic	0-1 (ppm)	0.45 ppm
Other amino acids(TLC)	0-1 (%)	0.36 %
Specific Rotation [α] <sub>20</sub> /D(c=10 in 6N HCl)	33.5-36.5 (°)	33.51°
Sulfate Ash	0-0.1 (%)	0.01 %
Appearance (A108223)	White to Off-White Powder	White to Off-White Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager