

## Certificate of Analysis

Date of Testing: 2023-08-11 10:00:45  
 Date of Next Testing: 2026-08-10 10:00:45  
 Product Name: **L-Aspartic acid**  
 CAS Number: 56-84-8  
 Specifications & Purity: BioReagent Plus, ≥99% (HPLC)  
 Lot #: H2301619  
 SKU #: **L475308**  
**Analysis: 250696**

Parameter	Limit Values	Result
Ammonium(NH <sub>4</sub> )	0-0.05 (%)	0.00000 %
Residue on ignition(Ash)	0-0.1 (%)	0.00000 %
Insoluble matter	0-0.1 (%)	0.00 %
Chloride Content	0-0.05 (%)	0.00 %
Aluminum(Al)	0-0.0005 (%)	0.00 %
Phosphorus (P)	0-0.0005 (%)	0.00 %
Lead(Pb)	0-0.001 (%)	0.00 %
Magnesium(Mg)	0-0.0005 (%)	0.00 %
Iron(Fe)	0-0.0005 (%)	0.00 %
Copper(Cu)	0-0.0005 (%)	0.00 %
Zinc(Zn)	0-0.0005 (%)	0.00 %
Purity(HPLC area)	99-100 (%)	99.06 %
Sulfate(SO <sub>4</sub> )	0-0.05 (%)	0.04700 %
Calcium(Ca)	0-0.001 (%)	0.00 %
Sodium(Na)	0-0.005 (%)	0.00 %
Potassium(K)	0-0.005 (%)	0.00 %
Specific Rotation [α] <sub>20</sub> /D(c=8 in 6N HCl)	24-26 (°)	24.05 °
Appearance(L475308)	White to Off-White crystalline powder or solid	White to off-white Crystalline powder or solid
Solubility(0.5 M, 1M HCl),Colorless to Faint Yellow Clear liquid	Pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager