

## Certificate of Analysis

Date of Testing: 2023-08-11 10:02:59  
 Date of Next Testing: 2026-08-10 10:02:59  
 Product Name: **L-Aspartic acid**  
 CAS Number: 56-84-8  
 Specifications & Purity: BioReagent Plus, ≥99% (HPLC)  
 Lot #: H2301616  
 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



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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager