

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

| | |
|--------------------------|------------------------------|
| Date of Testing: | 2024-09-05 17:21:35 |
| Date of Next Testing: | 2027-09-05 17:21:35 |
| Product Name: | L-Aspartic acid |
| CAS Number: | 56-84-8 |
| Specifications & Purity: | BioReagent Plus, ≥99% (HPLC) |
| Lot #: | H2430533 |
| SKU # | L475308 |
| Version | 1 |
| Analysis #: | 392615 |

| Parameter | Limit Values | Result |
|--|--|--|
| Residue on ignition(Ash) | 0-0.1 (%) | 0.00000 % |
| Insoluble matter | 0-0.1 (%) | 0.00 % |
| Chloride Content | 0-0.05 (%) | 0.00 % |
| Sulfate(SO4) | 0-0.05 (%) | 0.01700 % |
| 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 % |
| Sodium(Na) | 0-0.005 (%) | 0.00 % |
| Iron(Fe) | 0-0.0005 (%) | 0.00 % |
| Copper(Cu) | 0-0.0005 (%) | 0.00 % |
| Zinc(Zn) | 0-0.0005 (%) | 0.00 % |
| Potassium(K) | 0-0.005 (%) | 0.00 % |
| Purity(HPLC area) | 99-100 (%) | 99.82 % |
| Specific Rotation [α] ₂₀ /D(c=8 in 6N HCl) | 24-26 (°) | 24.08° |
| Ammonium(NH ₄) | 0-0.05 (%) | 0.05000 % |
| Calcium(Ca) | 0-0.001 (%) | 0.00 % |
| 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