

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-10-16 11:45:34
 Date of Next Testing: 2029-10-15 11:45:34
 Product Name: **L(+)-Glutamic acid**
 CAS Number: 56-86-0
 Specifications & Purity: $\geq 99\%$
 Lot #: J2509413
 SKU #: **G103978**
 Version: **0**
 Analysis #: **592613**
 Storage Temperature: Room temperature, Desiccated, Cool

Parameter	Limit Values	Result
Loss on drying	0-0.5 (%)	0.08000 %
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in } 2N \text{ HCl})$	30.5-32.5 (°)	30.60000 °
As ₂ O ₃	0-1 (ppm)	0.13000 ppm
Iron(Fe)	0-30 (ppm)	1.80000 ppm
Purity(as dry basis)	99-100 (%)	99.70000 %
Sulfate(SO ₄ ²⁻)	0-300 (ppm)	12.53600 ppm
Sulfate Ash	0-0.1 (%)	0.00000 %
Ammonia (NH ₄)	0-200 (ppm)	200.00000 ppm
Chloride (Cl ⁻)	0-200 (ppm)	125.00000 ppm
Heavy metal (as Pb)	0-10 (ppm)	0.00000 ppm
Appearance (G103978)	white powder	White powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Other amino acids	Not detected	Not detected



John Su
QA & QC Manager