

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-01-24 15:26:20
 Date of Next Testing: 2030-01-23 15:26:20
 Product Name: **L(+)-Glutamic acid**
 CAS Number: 56-86-0
 Specifications & Purity: $\geq 99\%$
 Lot #: A2621439
 SKU #: **G103978**
 Version: **0**
 Analysis #: **650435**
 Storage Temperature: Room temperature, Desiccated, Cool

Parameter	Limit Values	Result
Loss on drying	0-0.5 (%)	0.18000 %
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in } 2N \text{ HCl})$	30.5-32.5 (°)	30.56000 °
As ₂ O ₃	0-1 (ppm)	0.00000 ppm
Iron(Fe)	0-30 (ppm)	0.23500 ppm
Purity(as dry basis)	99-100 (%)	99.80000 %
Sulfate(SO ₄ ²⁻)	0-300 (ppm)	2.35000 ppm
Sulfate Ash	0-0.1 (%)	0.00000 %
Ammonia (NH ₄)	0-200 (ppm)	0.02000 ppm
Chloride (Cl ⁻)	0-200 (ppm)	20.00000 ppm
Heavy metal (as Pb)	0-10 (ppm)	3.50000 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