

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-02-02 11:10:41
 Date of Next Testing: 2028-02-01 11:10:41
 Product Name: **L(+)-Glutamic acid**
 CAS Number: 56-86-0
 Specifications & Purity: 99%
 Lot #: B2401109
 SKU #: **G103978**
 Analysis: **319629**

Parameter	Limit Values	Result
Loss on drying	0-0.5 (%)	0.08 %
Specific Rotation [α] ₂₀ /D(c=10 in 2N HCl)	30.5-32.5 (°)	31.90°
As ₂ O ₃	0-1 (ppm)	0.00 ppm
Iron(Fe)	0-30 (ppm)	2.60 ppm
Sulfate(SO ₄ ²⁻)	0-300 (ppm)	2.58 ppm
Sulfate Ash	0-0.1 (%)	0.00 %
Ammonia (NH ₄)	0-200 (ppm)	0.01 ppm
Chloride (Cl ⁻)	0-200 (ppm)	120.00 ppm
Heavy metal (as Pb)	0-10 (ppm)	6.80 ppm
Purity(as dry basis)	99-100 (%)	99.30 %
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