

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-06-17 10:06:07
Date of Next Testing: 2028-06-16 10:06:07
Product Name: **L(+)-Glutamic acid**
CAS Number: 56-86-0
Specifications & Purity: $\geq 99\%$
Lot #: F2405360
SKU #: **G103978**
Version: **0**
Analysis #: **370063**

Parameter	Limit Values	Result
Loss on drying	0-0.5 (%)	0.00 %
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in } 2N \text{ HCl})$	30.5-32.5 ($^{\circ}$)	30.52 $^{\circ}$
As ₂ O ₃	0-1 (ppm)	0.52 ppm
Iron(Fe)	0-30 (ppm)	0.00 ppm
Purity(as dry basis)	99-100 (%)	99.12 %
Sulfate(SO ₄ ²⁻)	0-300 (ppm)	0.00 ppm
Sulfate Ash	0-0.1 (%)	0.00 %
Ammonia (NH ₄)	0-200 (ppm)	200.00 ppm
Chloride (Cl ⁻)	0-200 (ppm)	0.00 ppm
Heavy metal (as Pb)	0-10 (ppm)	0.40 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