

Certificate of Analysis

Date of Testing: 2023-10-24 17:06:58

Date of Next Testing: 2027-10-23 17:06:58

Product Name: **L(+)-Glutamic acid**

CAS Number: 56-86-0

Specifications & Purity: 99%

Lot #: J2320397

SKU #: **G103978**

Analysis: 289083

Parameter	Limit Values	Result
Loss on drying	0-0.5 (%)	0.07 %
Specific Rotation [α] ₂₀ /D(c=10 in 2N HCl)	30.5-32.5 (°)	32.00°
As ₂ O ₃	0-1 (ppm)	0.00 ppm
Iron(Fe)	0-30 (ppm)	2.10 ppm
Sulfate(SO ₄ ²⁻)	0-300 (ppm)	23.90 ppm
Sulfate Ash	0-0.1 (%)	0.00 %
Ammonia (NH ₄)	0-200 (ppm)	100.00 ppm
Chloride (Cl ⁻)	0-200 (ppm)	110.00 ppm
Heavy metal (as Pb)	0-10 (ppm)	2.00 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