

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-05-07 14:53:48

Date of Next Testing: 2030-05-06 14:53:48

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

CAS Number: 56-86-0

Specifications & Purity: Ultra pure, ≥99.5%(NT)

Lot #: D2630387

SKU #: **G103979**

Version: **1**

Analysis #: **696985**

Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

Parameter	Limit Values	Result
Chloride (Cl-)	0-0.02 (%)	0.00100 %
Ignition Residue (as sulfate)	0-0.05 (%)	0.02000 %
Sulfate(SO42-)	0-200 (ppm)	1.32500 ppm
Loss on drying	0-0.5 (%)	0.07000 %
foreign amino acids	0-0.5 (%)	0.02500 %
Purity(Nonaqueous Titration)(As drybase)	99-101 (%)	99.60000 %
Nickel(Ni)	0-5 (ppm)	4.20000 ppm
Calcium(Ca)	0-200 (ppm)	130.00000 ppm
Cadmium(Cd)	0-5 (ppm)	1.80000 ppm
Zinc(Zn)	0-5 (ppm)	3.60000 ppm
Iron(Fe)	0-5 (ppm)	2.00000 ppm
Potassium(K)	0-50 (ppm)	40.00000 ppm
Bismuth(Bi)	0-5 (ppm)	2.80000 ppm
Magnesium(Mg)	0-5 (ppm)	3.60000 ppm
Lithium(Li)	0-5 (ppm)	4.20000 ppm
Barium(Ba)	0-5 (ppm)	3.60000 ppm
Sodium(Na)	0-200 (ppm)	180.00000 ppm
Aluminum(Al)	0-5 (ppm)	4.50000 ppm
Cobalt(Co)	0-5 (ppm)	3.60000 ppm
(Pb)Lead	0-5 (ppm)	1.80000 ppm
Molybdenum(Mo)	0-5 (ppm)	1.80000 ppm
Chromium(Cr)	0-5 (ppm)	3.20000 ppm
Strontium(Sr)	0-5 (ppm)	2.90000 ppm
Copper(Cu)	0-5 (ppm)	2.80000 ppm
Ammonia (NH4)	0-0.02 (%)	0.02000 %

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Parameter	Limit Values	Result
UV Absorbance 260nm	0-0.1	0.10000
UV Absorbance 280nm	0-0.1	0.09800
Specific Rotation [α] ₂₀ /D(c=5 in 5 M HCl)	30.5-32.5 (°)	31.50000 °
Manganese(Mn)	0-5	2.80000
Appearance (G103979)	white powder to crystal	White powder to crystal
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insoluble matter	pass	Pass
Solubility 1M HCl , soluble 1 M at 20°C, clear, colorless	pass	Pass
λ, 1 M in 1 M HCl	Pass	Pass



John Su
QA & QC Manager