

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Specification Sheet

Product Name: **L(+)-Glutamic acid**  
 Specifications & Purity: **Ultra pure, ≥99.5%(NT)**  
 SKU #: **G103979**

<b>Parameter</b>	<b>Limit Values</b>
Nickel(Ni)	0-5 (ppm)
Ammonia (NH <sub>4</sub> )	0-0.02 (%)
Chloride (Cl <sup>-</sup> )	0-0.02 (%)
Calcium(Ca)	0-200 (ppm)
Ignition Residue (as sulfate)	0-0.05 (%)
Cadmium(Cd)	0-5 (ppm)
Zinc(Zn)	0-5 (ppm)
Iron(Fe)	0-5 (ppm)
Potassium(K)	0-50 (ppm)
UV Absorbance 260nm	0-0.1
Bismuth(Bi)	0-5 (ppm)
UV Absorbance 280nm	0-0.1
Magnesium (Mg)	0-5 (ppm)
Lithium(Li)	0-5 (ppm)
Barium(Ba)	0-5 (ppm)
Specific Rotation [α] <sub>20</sub> /D(c=5 in 5 M HCl)	30.5-32.5 (°)
Purity((NT)	99.5-100.5 (%)
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-200 (ppm)
Loss on drying	0-0.05 (%)
Sodium(Na)	0-200 (ppm)
Manganese(Mn)	0-5
Aluminum(Al)	0-5 (ppm)
Cobalt (Co)	0-5 (ppm)
(Pb)Lead	0-5 (ppm)
Molybdenum(Mo)	0-5 (ppm)
Chrome(Cr)	0-5 (ppm)
Strontium(Sr)	0-5 (ppm)
Copper(Cu)	0-5 (ppm)
foreign amino acids	0-0.5 (%)
Appearance (G103979)	white powder
Infrared spectrum	Conforms to Structure
Insoluble matter	pass

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**Parameter**

Solubility 1M HCl , soluble 1 M at 20°C, clear, colorless  
λ, 1 M in 1 M HCl

**Limit Values**

pass  
Pass