

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-04-08 10:17:20
 Date of Next Testing: 2029-04-07 10:17:20
 Product Name: **L-(+)-Lysine Monohydrochloride**
 CAS Number: 657-27-2
 Specifications & Purity: Ultra pure, ≥99.5%(AT)
 Lot #: F2121214
 SKU #: **L113005**
 Version: **0**
 Analysis #: **491198**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Strontium(Sr)	0-5 (ppm)	2.03000 ppm
Specific Rotation [α] ₂₀ /D(c=5 in 5 M HCl)	20-21 (°)	20.10000 °
(Pb)Lead	0-5 (ppm)	1.99000 ppm
Iron(Fe)	0-5 (ppm)	2.00000 ppm
Molybdenum(Mo)	0-5 (ppm)	2.98000 ppm
foreign amino acids	0-0.3 (%)	0.00000 %
Chromium(Cr)	0-5 (ppm)	1.00000 ppm
Loss on drying	0-0.5 (%)	0.00000 %
Ammonia (NH ₄)	0-100 (ppm)	40.60000 ppm
UV Absorbance 280nm	0-0.1	0.00000
Lithium(Li)	0-5 (ppm)	3.00000 ppm
Magnesium(Mg)	0-5 (ppm)	2.20000 ppm
Barium(Ba)	0-5 (ppm)	2.30000 ppm
Sulfate(SO ₄ ²⁻)	0-100 (ppm)	60.00000 ppm
(As)Arsenic	0-0.1 (ppm)	0.00000 ppm
Manganese(Mn)	0-5	4.00000
Aluminum(Al)	0-5 (ppm)	2.90000 ppm
Cobalt(Co)	0-5 (ppm)	1.00000 ppm
Ignition Residue (as sulfate)	0-0.1 (%)	0.00000 %
Bismuth(Bi)	0-5 (ppm)	2.90000 ppm
UV Absorbance 260nm	0-0.1	0.00000
pH	5-6	5.60000
Zinc(Zn)	0-5 (ppm)	3.90000 ppm
Potassium(K)	0-50 (ppm)	28.90000 ppm
Nickel(Ni)	0-5 (ppm)	1.69000 ppm

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Sodium(Na)	0-50 (ppm)	32.00000 ppm
Cadmium(Cd)	0-5 (ppm)	2.00000 ppm
Copper(Cu)	0-5 (ppm)	1.90000 ppm
Calcium(Ca)	0-10 (ppm)	5.00000 ppm
Purity (Argentmetric Titration)	99.5-100 (%)	99.70000 %
Appearance (L113005)	White Powder or Crystals	White Powder or Crystals
Carbon NMR Spectrum	Conforms to Structure	Conforms to Structure
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insoluble matter	pass	Pass
Solubility in H ₂ O , soluble , 1M , 20°C, clear, colorless	pass	Pass
λ, 0.5 M in H ₂ O	Pass	Pass



John Su
QA & QC Manager