

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-06-04 13:46:04
 Date of Next Testing: 2029-06-03 13:46:04
 Product Name: **L-(+)-Lysine Monohydrochloride**
 CAS Number: 657-27-2
 Specifications & Purity: Ultra pure, ≥99.5%(AT)
 Lot #: E2515454
 SKU #: **L113005**
 Version: **0**
 Analysis #: **503741**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Strontium(Sr)	0-5 (ppm)	0.32500 ppm
Specific Rotation [α] ₂₀ /D(c=5 in 5 M HCl)	20-21 (°)	20.16300 °
(Pb)Lead	0-5 (ppm)	0.02510 ppm
Iron(Fe)	0-5 (ppm)	0.23500 ppm
Molybdenum(Mo)	0-5 (ppm)	0.14200 ppm
foreign amino acids	0-0.3 (%)	0.10250 %
Chromium(Cr)	0-5 (ppm)	0.23050 ppm
Loss on drying	0-0.5 (%)	0.01520 %
Ammonia (NH ₄)	0-100 (ppm)	1.52500 ppm
UV Absorbance 280nm	0-0.1	0.03250
Lithium(Li)	0-5 (ppm)	0.32540 ppm
Magnesium(Mg)	0-5 (ppm)	0.10200 ppm
Barium(Ba)	0-5 (ppm)	0.02520 ppm
Sulfate(SO ₄ ²⁻)	0-100 (ppm)	1.52600 ppm
(As)Arsenic	0-0.1 (ppm)	0.03250 ppm
Manganese(Mn)	0-5	0.12500
Aluminum(Al)	0-5 (ppm)	0.03250 ppm
Cobalt(Co)	0-5 (ppm)	0.04150 ppm
Ignition Residue (as sulfate)	0-0.1 (%)	0.03250 %
Bismuth(Bi)	0-5 (ppm)	0.03120 ppm
UV Absorbance 260nm	0-0.1	0.02510
pH	5-6	5.57500
Zinc(Zn)	0-5 (ppm)	0.32500 ppm
Potassium(K)	0-50 (ppm)	1.02500 ppm
Nickel(Ni)	0-5 (ppm)	0.32400 ppm

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Parameter	Limit Values	Result
Sodium(Na)	0-50 (ppm)	0.26300 ppm
Cadmium(Cd)	0-5 (ppm)	0.02410 ppm
Copper(Cu)	0-5 (ppm)	0.23600 ppm
Calcium(Ca)	0-10 (ppm)	1.02530 ppm
Purity (Argentmetric Titration)	99.5-100 (%)	99.59000 %
Appearance (L113005)	White Powder or Crystals	White Powder or Crystals
Carbon NMR 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
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager