

Certificate of Analysis

Date of Testing:	2023-05-17 15:53:45
Date of Next Testing:	2027-05-16 15:53:45
Product Name:	L-(+)-Lysine Monohydrochloride
CAS Number:	657-27-2
Specifications & Purity:	99%
Lot #:	E2305094
SKU #	L105432
Analysis:	225103
Storage Temperature:	Room temperature

Parameter	Limit Values	Result
Loss on drying	0-0.3 (%)	0.01 %
Heavy metal (as Pb)	0-10 (ppm)	0.06 ppm
Iron(Fe)	0-30 (ppm)	2.06 ppm
Sulfate(SO42-)	0-200 (ppm)	0.10 ppm
Purity(as dry basis)	99-101 (%)	100.00 %
Transmission(c=10, H2O, 430 nm, 1 cm cell)	95-100 (%)	98.00 %
Sulfate Ash	0-0.1 (%)	0.01 %
Ammonia (NH4)	0-200 (ppm)	0.10 ppm
Melting point	263-264 (°C)	263.50000 °C
Other amino acids(TLC)	0-0.5 (%)	0.03 %
(As)Arsenic	0-1 (ppm)	0.01 ppm
Specific Rotation [α] ₂₀ /D(c=8 in 6N HCl)	20.5-21.5 (°)	21.00°
Appearance (L105432)	White to Off-White Powder or Solid or Chunks	White to Off-White Powder or Solid or Chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager