

Certificate of Analysis

Date of Testing:	2024-08-10 14:43:12
Date of Next Testing:	2028-08-09 14:43:12
Product Name:	L-(+)-Lysine Monohydrochloride
CAS Number:	657-27-2
Specifications & Purity:	≥99%
Lot #:	G2431280
SKU #	L105432
Version	1
Analysis #:	397987
Storage Temperature:	Room temperature

Parameter	Limit Values	Result
Loss on drying	0-0.3 (%)	0.20%
Heavy metal (as Pb)	0-10 (ppm)	0.50 ppm
Iron(Fe)	0-30 (ppm)	2.00 ppm
Sulfate(SO42-)	0-200 (ppm)	20.00 ppm
Purity(as dry basis)	99-101 (%)	99.86%
Transmission(c=10, H2O, 430 nm,1 cm cell)	95-100 (%)	95.30%
Sulfate Ash	0-0.1 (%)	0.01%
Ammonia (NH4)	0-200 (ppm)	12.00 ppm
Melting point	263-264 (°C)	263.04000 °C
Other amino acids(TLC)	0-0.5 (%)	0.05%
(As)Arsenic	0-1 (ppm)	0.11 ppm
Specific Rotation [α] ₂₀ /D(c=5 in 5 M HCl)	20-21 (°)	20.18°
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

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

John Su
QA & QC Manager