

Certificate of Analysis

Date of Testing: 2025-03-21 11:32:19

Date of Next Testing: 2029-03-20 11:32:19

Product Name: **L-(+)-Lysine Monohydrochloride**

CAS Number: 657-27-2

Specifications & Purity: $\geq 99\%$

Lot #: C2511443

SKU #: **L105432**

Version: **1**

Analysis #: **486710**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Loss on drying	0-0.3 (%)	0.00 %
Heavy metal (as Pb)	0-10 (ppm)	0.12 ppm
Iron(Fe)	0-30 (ppm)	1.32 ppm
Sulfate(SO ₄ ²⁻)	0-200 (ppm)	11.02 ppm
Purity(as dry basis)	99-101 (%)	99.58 %
Transmission(c=10, H ₂ O, 430 nm, 1 cm cell)	95-100 (%)	95.56 %
Sulfate Ash	0-0.1 (%)	0.01 %
Ammonia (NH ₄)	0-200 (ppm)	1.01 ppm
Melting point	256-263 (°C)	257.18000 °C
Other amino acids(TLC)	0-0.5 (%)	0.02 %
(As)Arsenic	0-1 (ppm)	0.11 ppm
Specific Rotation [α] ₂₀ /D(c=5 in 5 M HCl)	20-21 (°)	20.47°
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".

John Su
QA & QC Manager