

## Certificate of Analysis

Date of Testing:	2023-02-08 08:49:36
Date of Next Testing:	2027-02-07 08:49:36
Product Name:	<b>L-(+)-Lysine Monohydrochloride</b>
CAS Number:	657-27-2
Specifications & Purity:	99%
Lot #:	B2303800
SKU #	<b>L105432</b>
<b>Analysis:</b>	<b>080088</b>
Storage Temperature:	Room temperature

Parameter	Limit Values	Result
Loss on drying	0-0.3 (%)	0.04 %
Heavy metal (as Pb)	0-10 (ppm)	2.50 ppm
Iron(Fe)	0-30 (ppm)	16.74 ppm
Sulfate(SO42-)	0-200 (ppm)	100.00 ppm
Purity(as dry basis)	99-101 (%)	99.21 %
Transmission(c=10, H2O, 430 nm, 1 cm cell)	95-100 (%)	95.96 %
Sulfate Ash	0-0.1 (%)	0.03 %
Ammonia (NH4)	0-200 (ppm)	100.00 ppm
Melting point	263-264 (°C)	263.17000 °C
Other amino acids(TLC)	0-0.5 (%)	0.26 %
(As)Arsenic	0-1 (ppm)	0.00 ppm
Specific Rotation [α] <sub>20</sub> /D(c=8 in 6N HCl)	20.5-21.5 (°)	20.80°
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



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ALADDIN SCIENTIFIC CORPORATION

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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager