

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-06-18 19:04:35

Date of Next Testing: 2030-06-17 19:04:35

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

CAS Number: 657-27-2

Specifications & Purity: Animal Free, USP, JP, Ph.Eur., for cell culture, ≥98.5%

Lot #: F2610233

SKU #: **L113006**

Version: **6**

Analysis #: **611835**

Storage Temperature: Room temperature

| Parameter                                             | Limit Values                          | Result                                |
|-------------------------------------------------------|---------------------------------------|---------------------------------------|
| Sulfate(SO42-)                                        | 0-0.02 (%)                            | 0.00000 %                             |
| Heavy metal (as Pb)                                   | 0-10 (ppm)                            | 0.00000 ppm                           |
| Loss on drying                                        | 0-0.4 (%)                             | 0.26830 %                             |
| Ignition Residue (as sulfate)                         | 0-0.1 (%)                             | 0.00000 %                             |
| Iron(Fe)                                              | 0-10 (ppm)                            | 0.00000 ppm                           |
| (As)Arsenic                                           | 0-1 (ppm)                             | 0.00000 ppm                           |
| PH test                                               | 5-6                                   | 5.41000                               |
| Ammonia (NH4)                                         | 0-0.02 (%)                            | 0.01000 %                             |
| Specific Rotation [α] <sub>25</sub> /D(c=8 in 6M HCL) | 20.4-21.4 (°)                         | 21.38000 °                            |
| Purity                                                | 98.5-100.5 (%)                        | 100.48000 %                           |
| Chloride (Cl-)                                        | 19.12-19.51(%)                        | 19.39000 %                            |
| Appearance (L113006)                                  | White to Off White Powder or Crystals | White to Off White Powder or Crystals |
| Solubility,1g/5ml water                               | Clear colorless                       | Clear Colorless                       |
| Cell Culture Test                                     | pass                                  | Pass                                  |
| Infrared spectrum                                     | Conforms to Structure                 | Conforms to Structure                 |
| Ninhydrin-positive substances (other amino acids)     | Conforms                              | Conforms                              |
| Residual solvents                                     | complies                              | complies                              |



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

John Su  
QA & QC Manager