

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-01-05 18:03:35  
 Date of Next Testing: 2027-01-04 18:03:35  
 Product Name: **L-Lysine**  
 CAS Number: 56-87-1  
 Specifications & Purity: Moligand™, ≥98%  
 Lot #: A2304519  
 SKU #: **L103479**  
 Version: **1**  
 Analysis #: **157516**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                                                                   | Limit Values                             | Result                                   |
|-----------------------------------------------------------------------------|------------------------------------------|------------------------------------------|
| Specific Rotation [α] <sub>20/D</sub> (c=2 in 5mol/L HCl)                   | 24-27 (°)                                | 24.00300°                                |
| Water by Karl Fischer                                                       | 0-12 (%)                                 | 0.93860 %                                |
| Purity(HPLC)                                                                | 98-100 (%)                               | 99.85900 %                               |
| Nitrogen by Elemental Analysis (anhydrous)                                  | 18.8-19.5 (%)                            | 18.81000 %                               |
| Carbon by Elemental Analysis(anhydrous)                                     | 48.3-50.3 (%)                            | 48.31000 %                               |
| Appearance (L103479)                                                        | White to Light Yellow Powder or Crystals | White to Light Yellow Powder or Crystals |
| Solubility in H <sub>2</sub> O , Colorless to Faint Yellow ,Clear,100 mg/mL | pass                                     | Pass                                     |
| Proton NMR spectrum                                                         | Conforms to structure                    | Conforms to Structure                    |



John Su  
QA & QC Manager