

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-04-16 15:34:25  
 Date of Next Testing: 2030-04-15 15:34:25  
 Product Name: **L-Cysteine hydrochloride**  
 CAS Number: 52-89-1  
 Specifications & Purity:  $\geq 98\%$   
 Lot #: D2610529  
 SKU #: **C113143**  
 Version: **1**  
 Analysis #: **670690**  
 Storage Temperature: Protected from light, Room temperature, Argon charged

| Parameter                                                                            | Limit Values                          | Result                                |
|--------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|
| Loss on drying                                                                       | 0-2 (%)                               | 0.88078 %                             |
| Specific Rotation(c=8 in 1 M HCl at 20 deg C)                                        | 5.6-8.9 (°)                           | 6.29700 °                             |
| Purity(HPLC)                                                                         | 98-100 (%)                            | 100.00000 %                           |
| Appearance (C113143)                                                                 | White to Off-White Powder or Crystals | White to Off-White Powder or Crystals |
| Solubility in H <sub>2</sub> O , Colorless ,Clear ,50 mg/mL in pass H <sub>2</sub> O |                                       | Pass                                  |
| Infrared spectrum                                                                    | Conforms to Structure                 | Conforms to Structure                 |



John Su  
QA & QC Manager