

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-01-17 11:44:43

Date of Next Testing: 2030-01-16 11:44:43

Product Name: **L-Cysteine hydrochloride monohydrate**

CAS Number: 7048-04-6

Specifications & Purity: Animal Free, PharmPure™, USP, Ph.Eur., for cell culture

Lot #: A2613002

SKU #: **C118575**

Version: **3**

Analysis #: **615764**

Storage Temperature: Protected from light, Room temperature, Argon charged

| Parameter                                                  | Limit Values                                | Result                                      |
|------------------------------------------------------------|---------------------------------------------|---------------------------------------------|
| Sulfate(SO42-)                                             | 0-0.02 (%)                                  | 0.00620 %                                   |
| Iron(Fe)                                                   | 0-10 (ppm)                                  | 0.00000 ppm                                 |
| Ammonia (NH4)                                              | 0-0.02 (%)                                  | 0.02000 %                                   |
| PH( 1% in Water)                                           | 1.5-2                                       | 1.81000                                     |
| Heavy metal (as Pb)                                        | 0-10 (ppm)                                  | 1.58700 ppm                                 |
| Ignition Residue                                           | 0-0.1 (%)                                   | 0.10000 %                                   |
| Purity(titration with AgNO3)(dry basis)                    | 98.5-101 (%)                                | 99.34000 %                                  |
| Endotoxin Assay                                            | 0-1 (EU/mg)                                 | 0.02000 EU/mg                               |
| Loss on drying                                             | 8.5-12 (%)                                  | 10.97540 %                                  |
| Chloride (Cl-)                                             | 19.89-20.29 (%)                             | 20.19000 %                                  |
| Specific Rotation [α] <sub>20</sub> /D(c=8 in 1mol/L HCl)  | 5.5-7 (°)                                   | 5.50000 °                                   |
| Appearance (C118575)                                       | White Crystals, Powder or Crystalline Solid | White Crystals, Powder or Crystalline Solid |
| Solubility in H <sub>2</sub> O , Colorless Clear 100 mg/ml | pass                                        | Pass                                        |
| Cell Culture Test                                          | pass                                        | Pass                                        |
| Infrared spectrum                                          | Conforms to Structure                       | Conforms to Structure                       |
| Ninhydrin-positive substances (other amino acids)          | Conforms                                    | Conforms                                    |
| Origin                                                     | non-animal source                           | non-animal source                           |
| Residual solvents                                          | complies                                    | complies                                    |



[QualityAssurance@aladdinsci.com](mailto:QualityAssurance@aladdinsci.com)

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

John Su  
QA & QC Manager