

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-06-13 14:39:02

Date of Next Testing: 2027-06-12 14:39:02

Product Name: **L-Cysteine methyl ester hydrochloride**

CAS Number: 18598-63-5

Specifications & Purity:  $\geq 98\%$

Lot #: F2302673

SKU #: **C105474**

Version: **0**

Analysis #: **218690**

Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                                        | Limit Values             | Result                   |
|------------------------------------------------------------------|--------------------------|--------------------------|
| Carbon by Elemental Analysis                                     | 27.2-28.7 (%)            | 27.99400 %               |
| Nitrogen by Elemental Analysis                                   | 7.9-8.4 (%)              | 8.14200 %                |
| Specific Rotation $[\alpha]_{20/D}(c=20 \text{ in MeOH})$        | -3.5--1.5 (°)            | -2.86700 °               |
| Purity(Iodometric Titration)                                     | 98-102.5 (%)             | 98.74000 %               |
| Appearance (C105474)                                             | White Powder or Crystals | White Powder or Crystals |
| Solubility in H <sub>2</sub> O , Colorless Clear c = 50mg/ml(5%) | pass                     | Pass                     |
| Infrared spectrum                                                | Conforms to Structure    | Conforms to Structure    |



John Su  
QA & QC Manager