

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-03 13:48:21

Date of Next Testing: 2027-03-02 13:48:21

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

CAS Number: 868-59-7

Specifications & Purity: $\geq 98\%$

Lot #: B2327516

SKU #: **C100827**

Version: **0**

Analysis #: **149633**

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

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=8 \text{ in } 1\text{mol/L HCl})$	-13--11 (°)	-11.18900 °
Purity(Iodometric Titration)	97.5-102.5 (%)	99.99000 %
Purity(HPLC)	98-100 (%)	98.00800 %
Appearance (C100827)	White Powder, Crystals and/or Chunks	White Powder, Crystals and/or Chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager