

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-03 12:37:10
 Date of Next Testing: 2027-03-02 12:37:10
 Product Name: **L-Cysteine ethyl ester hydrochloride**
 CAS Number: 868-59-7
 Specifications & Purity: $\geq 98\%$
 Lot #: B2327552
 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