

## Certificate of Analysis

Date of Testing: 2025-06-03 14:14:54  
Date of Next Testing: 2029-06-02 14:14:54  
Product Name: **L-Cysteine hydrochloride , anhydrous**  
CAS Number: 52-89-1  
Specifications & Purity:  $\geq 98\%$   
Lot #: E2528122  
SKU #: **C113143**  
Version: **1**  
Analysis #: **455564**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	98.99500 %
Specific Rotation(c=8 in 1 M HCl at 20 deg C)	5.6-8.9 (°)	6.70000 °
Loss on drying	0-1 (%)	0.76 %
Appearance (C113143)	White to Off-White Powder	White to Off-White Powder
Solubility in H <sub>2</sub> O , Colorless ,Clear ,50 mg/mL in H <sub>2</sub> O	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager