

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-31 16:57:19  
Date of Next Testing: 2027-05-30 16:57:19  
Product Name: **L-Cysteine hydrochloride , anhydrous**  
CAS Number: 52-89-1  
Specifications & Purity: 98%  
Lot #: E2327639  
SKU #: **C113143**  
**Analysis:** **055556**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.94500 %
Loss on drying	0-1 (%)	0.98 %
Specific Rotation [a] <sub>20</sub> /D(c=5 in 1N HCl)	6.5-9.5 (°)	6.51 °
Appearance (C113143)	White to Off-White Powder	White to Off-White Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless ,Clear ,50 mg/mL in H <sub>2</sub> O	pass	Pass



John Su  
QA & QC Manager