

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-09-22 10:38:57  
Date of Next Testing: 2029-09-21 10:38:57  
Product Name: **L-Cystine (H-Cys-OH)<sub>2</sub>**  
CAS Number: 56-89-3  
Specifications & Purity: Moligand™, ≥99%  
Lot #: I2516339  
SKU #: **C108225**  
Version: **2**  
Analysis #: **568147**  
Storage Temperature: Protected from light, Room temperature, Desiccated

Parameter	Limit Values	Result
Specific Rotation [α] <sub>20</sub> /D(c=1 in 1mol/L HCl)	-230--215 (°)	-220.00000 °
Loss on drying(105°C, 3h)	0-0.5 (%)	0.14000 %
Carbon by Elemental Analysis	29.4-30.6 (%)	29.45000 %
Purity(HPLC)	98-100 (%)	99.00000 %
Nitrogen by Elemental Analysis	11.4-11.9 (%)	11.42000 %
Sulfate Ash	0-0.1 (%)	0.09000 %
Heavy metal (as Pb)	0-10 (ppm)	2.60000 ppm
Appearance (C108225)	White to Off-White Powder	White to Off-White Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in 1 M HCl , Colorless to Light Yellow, Clear, 50 mg/ml pass		Pass



John Su  
QA & QC Manager