

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2024-06-03 10:31:23
Date of Next Testing:	2028-06-02 10:31:23
Product Name:	<b>L-Cystine</b>
CAS Number:	56-89-3
Specifications & Purity:	Moligand™, ≥99%
Lot #:	E2428197
SKU #	<b>C108225</b>
Version	<b>2</b>
Analysis #:	<b>350975</b>
Storage Temperature:	Protected from light, Desiccated

Parameter	Limit Values	Result
Specific Rotation [α] <sub>20</sub> /D(c=1 in 1mol/L HCl)	-230--215 (°)	-222.00 °
Loss on drying(105°C, 3h)	0-0.5 (%)	0.17 %
Carbon by Elemental Analysis	29.4-30.6 (%)	29.45 %
Purity(HPLC)	99-100 (%)	99.10000 %
Nitrogen by Elemental Analysis	11.4-11.9 (%)	11.45 %
Sulfate Ash	0-0.1 (%)	0.08 %
Heavy metal (as Pb)	0-10 (ppm)	6.00 ppm
Infrared spectrum	Conforms to Structure	Conforms to Structure
Appearance (C108225)	White to Off-White Powder	White to Off-White Powder
Solubility in 1 M HCl , Colorless to Light Yellow,Clear,50 mg/ml pass		Pass



John Su  
QA & QC Manager