

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-03-07 13:54:10
 Date of Next Testing: 2028-03-06 13:54:10
 Product Name: **L-Cystine**
 CAS Number: 56-89-3
 Specifications & Purity: 99%
 Lot #: C2405295
 SKU #: **C108225**
Analysis: **322347**
 Storage Temperature: Protected from light, Desiccated

Parameter	Limit Values	Result
Specific Rotation [α] _D ²⁰ (c=1 in 1mol/L HCl)	-230--215 (°)	-221.00 °
Sulfate Ash	0-0.1 (%)	0.03 %
Heavy metal (as Pb)	0-10 (ppm)	1.36 ppm
Loss on drying(105°C, 3h)	0-0.5 (%)	0.10 %
Carbon by Elemental Analysis	29.4-30.6 (%)	29.41 %
Nitrogen by Elemental Analysis	11.4-11.9 (%)	11.45 %
Purity(HPLC)	99-100 (%)	99.80000 %
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