

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2023-03-28 18:09:26
Date of Next Testing:	2027-03-27 18:09:26
Product Name:	L-Cystine
CAS Number:	56-89-3
Specifications & Purity:	99%
Lot #:	C2321980
SKU #	C108225
Analysis:	108380
Storage Temperature:	Protected from light, Desiccated

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.20000 %
Specific Rotation [α] ₂₀ /D(c=1 in 1mol/L HCl)	-230--215 (°)	-217.00 °
Carbon by Elemental Analysis	29.4-30.6 (%)	29.41 %
Nitrogen by Elemental Analysis	11.4-11.9 (%)	11.41 %
Sulfate Ash	0-0.1 (%)	0.05 %
Heavy metal (as Pb)	0-10 (ppm)	0.00 ppm
Loss on drying(105°C, 3h)	0-0.5 (%)	0.17 %
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/mlpass		Pass



John Su
QA & QC Manager