

Certificate of Analysis

Date of Testing: 2023-03-29 09:12:39
Date of Next Testing: 2027-03-28 09:12:39
Product Name: **L-Cystine**
CAS Number: 56-89-3
Specifications & Purity: 99%
Lot #: C2321981
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