

Certificate of Analysis

Date of Testing: 2024-12-07 10:49:50

Date of Next Testing: 2028-12-06 10:49:50

Product Name: **L-Cystine**

CAS Number: 56-89-3

Specifications & Purity: Moligand™, ≥99%

Lot #: L2404395

SKU #: **C108225**

Version: **2**

Analysis #: **439640**

Storage Temperature: Protected from light, Desiccated

Parameter	Limit Values	Result
Specific Rotation [α] ₂₀ /D(c=1 in 1mol/L HCl)	-230--215 (°)	-223.00 °
Sulfate Ash	0-0.1 (%)	0.03 %
Loss on drying(105°C, 3h)	0-0.5 (%)	0.08 %
Carbon by Elemental Analysis	29.4-30.6 (%)	29.45 %
Purity(HPLC)	98-100 (%)	99.40000 %
Nitrogen by Elemental Analysis	11.4-11.9 (%)	11.56 %
Heavy metal (as Pb)	0-10 (ppm)	5.00 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