

Certificate of Analysis

Date of Testing: 2024-03-28 11:49:44
Date of Next Testing: 2026-03-18 11:49:44
Product Name: **L-Cystine**
CAS Number: 56-89-3
Specifications & Purity: analytical standard , $\geq 99.5\%$
Lot #: C2426031
SKU #: **C108226**
Analysis: **337836**
Storage Temperature: Protected from light, Desiccated

Parameter	Limit Values	Result
Loss on drying(105°C, 3h)	0-0.5 (%)	0.10 %
Heavy metal (as Pb)	0-10 (ppm)	0.01 ppm
Carbon by Elemental Analysis	29.4-30.6 (%)	30.20 %
Purity(HPLC)	99.5-100 (%)	99.99200 %
Nitrogen by Elemental Analysis	11.4-11.9 (%)	11.65 %
Sulfate Ash	0-0.1 (%)	0.01 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in } 1\text{mol/L HCl})$	-230--215 (°)	-215.47 °
Appearance (C108226)	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