

Certificate of Analysis

Date of Testing: 2023-06-05 16:01:45

Date of Next Testing: 2025-05-25 16:01:45

Product Name: **L-Cystine**

CAS Number: 56-89-3

Specifications & Purity: analytical standard , $\geq 99.5\%$

Lot #: B1801029

SKU #: **C108226**

Analysis: **234635**

Storage Temperature: Protected from light, Desiccated

Parameter	Limit Values	Result
Loss on drying(105°C, 3h)	0-0.5 (%)	0.02 %
Heavy metal (as Pb)	0-10 (ppm)	2.51 ppm
Carbon by Elemental Analysis	29.4-30.6 (%)	29.60 %
Purity(HPLC)	99.5-100 (%)	99.85100 %
Nitrogen by Elemental Analysis	11.4-11.9 (%)	11.50 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in } 1\text{mol/L HCl})$	-230--215 (°)	-220.00 °
Sulfate Ash	0-0.1 (%)	0.05 %
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/ml	pass	Pass



John Su
QA & QC Manager