

Certificate of Analysis

Date of Testing: 2023-04-14 14:32:04

Date of Next Testing: 2027-04-13 14:32:04

Product Name: **L-Cysteine**

CAS Number: 52-90-4

Specifications & Purity: ≥98%,from non-animal source,for cell culture

Lot #: D2310222

SKU #: **C108238**

Analysis: 133215

Storage Temperature: Store at 2-8°C,Argon charged

Parameter	Limit Values	Result
Sulfate(SO42-)	0-0.03 (%)	0.02 %
(As)Arsenic	0-1 (ppm)	0.60 ppm
Assay	98-100 (%)	99.70 %
Iron(Fe)	0-10 (ppm)	5.00 ppm
Ammonia (NH4)	0-0.02 (%)	0.01 %
Heavy metal (as Pb)	0-10 (ppm)	6.30 ppm
Chloride (Cl-)	0-0.04 (%)	0.03 %
Specific Rotation [α] ₂₀ /D(c=8 in 1 M HCl)	8.3-9.5 (°)	8.70 °
Endotoxin Assay	0-1 (EU/mg)	0.98 EU/mg
Appearance (C108238)	White Powder or Crystals	White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Clear Colorless ,c = 25mg/ml, H ₂ O	pass	Pass
Cell Culture Test	pass	Pass
Cell Line test	Attached Cell Line	Attached Cell Line



John Su
QA & QC Manager