

ALADDIN SCIENTIFIC CORPORATION
 14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-01-12 11:08:05
 Date of Next Testing: 2030-01-11 11:08:05
 Product Name: **L-Cystine**
 CAS Number: 56-89-3
 Specifications & Purity: Animal Free, Moligand™, Ph.Eur., for cell culture
 Lot #: L2530122
 SKU #: **C118619**
 Version: **0**
 Analysis #: **616734**

Parameter	Limit Values	Result
Chloride	0-0.02 (%)	0.00 %
Iron(Fe)	0-10 (ppm)	5.20 ppm
Heavy metal (as Pb)	0-10 (ppm)	3.60 ppm
Sulfate Ash	0-0.1 (%)	0.06 %
Purity(HPLC)	98.5-100 (%)	100.00000 %
Ammonia (NH4)	0-200 (ppm)	10.52 ppm
Loss on drying	0-0.5 (%)	0.20 %
Endotoxin Assay	0-50 (EU/g)	23.23 EU/g
Specific Rotation [α] ₂₀ /D(c=2 in 1N HCl in dried basis)	-224--218 (°)	-219.63 °
Sulfate(SO ₄ ²⁻)	0-0.03 (%)	0.00 %
Appearance (C118619)	White Powder or Crystals	White Powder or Crystals
Cytotoxicity	Pass	Pass
Ninhydrin-Positive Substances	Conforms	Conforms
Residual solvents	complies	complies
Infrared spectrum	Conforms to Structure	Conforms to Structure
Origin	non-animal source	non-animal source



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager