

Certificate of Analysis

Date of Testing: 2025-03-01 16:32:49

Date of Next Testing: 2029-02-28 16:32:49

Product Name: **L-Cystine**

CAS Number: 56-89-3

Specifications & Purity: Moligand™, SuperPure grade, ≥99.5%

Lot #: B2526409

SKU #: **C108227**

Version: **2**

Analysis #: **474344**

Storage Temperature: Protected from light, Desiccated

Parameter	Limit Values	Result
Zinc(Zn)	0-5 (ppm)	2.50 ppm
Potassium(K)	0-50 (ppm)	25.00 ppm
Calcium(Ca)	0-50 (ppm)	25.00 ppm
Cadmium(Cd)	0-5 (ppm)	2.50 ppm
Sodium(Na)	0-150 (ppm)	75.00 ppm
Purity(HPLC)	99.5-100 (%)	99.64300 %
(Pb)Lead	0-5 (ppm)	2.50 ppm
Chloride (Cl-)	0-500 (ppm)	250.00 ppm
Iron(Fe)	0-10 (ppm)	5.00 ppm
Magnesium(Mg)	0-5 (ppm)	2.50 ppm
Chromium(Cr)	0-5 (ppm)	2.50 ppm
Specific Rotation [α] ₂₀ /D(c=2 in 1 M HCl)	-224--214 (°)	-218.33 °
Nickel(Ni)	0-5 (ppm)	2.50 ppm
Loss on drying	0-0.1 (%)	0.05 %
Manganese(Mn)	0-5	2.50
Cobalt(Co)	0-5 (ppm)	2.50 ppm
Sulfate(SO ₄ ²⁻)	0-100 (ppm)	50.00 ppm
Copper(Cu)	0-6 (ppm)	3.00 ppm
Sulfate Ash	0-0.1 (%)	0.04 %
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insoluble matter	pass	Pass
Appearance(C108227)	Colorless or White Powder to Crystals	Colorless or White Powder to Crystals



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager