

Certificate of Analysis

Date of Testing:	2025-06-27 18:34:43
Date of Next Testing:	2029-06-26 18:34:43
Product Name:	L-Cystine
CAS Number:	56-89-3
Specifications & Purity:	Moligand™, Ultra pure, ≥99.5%
Lot #:	F2526239
SKU #	C108227
Version	2
Analysis #:	530999
Storage Temperature:	Protected from light, Desiccated

Parameter	Limit Values	Result
Zinc(Zn)	0-5 (ppm)	5.00 ppm
Potassium(K)	0-50 (ppm)	25.00 ppm
Calcium(Ca)	0-50 (ppm)	25.00 ppm
Cadmium(Cd)	0-5 (ppm)	5.00 ppm
Sodium(Na)	0-150 (ppm)	100.00 ppm
Purity(HPLC)	99.5-100 (%)	99.94400 %
(Pb)Lead	0-5 (ppm)	5.00 ppm
Chloride (Cl-)	0-500 (ppm)	250.00 ppm
Iron(Fe)	0-10 (ppm)	5.00 ppm
Magnesium(Mg)	0-5 (ppm)	5.00 ppm
Chromium(Cr)	0-5 (ppm)	5.00 ppm
Nickel(Ni)	0-5 (ppm)	5.00 ppm
Loss on drying	0-0.1 (%)	0.10 %
Manganese(Mn)	0-5	5.00
Cobalt(Co)	0-5 (ppm)	5.00 ppm
Sulfate(SO42-)	0-100 (ppm)	50.00 ppm
Copper(Cu)	0-6 (ppm)	3.00 ppm
Sulfate Ash	0-0.1 (%)	0.04 %
Specific Rotation [α] ₂₀ /D(c=2 in 1 M HCl)	-224--214 (°)	-214.61 °
Insoluble matter	pass	Pass
Appearance(C108227)	Colorless or White Powder to Crystals	Colorless or White Powder to Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure



ALADDIN SCIENTIFIC CORPORATION

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

John Su
QA & QC Manager