

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2024-06-13 17:32:10
Date of Next Testing:	2028-06-12 17:32:10
Product Name:	L-Cystine
CAS Number:	56-89-3
Specifications & Purity:	Ultra pure , 99.5%
Lot #:	E2427359
SKU #	C108227
Version	2
Analysis #:	360162
Storage Temperature:	Protected from light,Desiccated

Parameter	Limit Values	Result
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
Calcium(Ca)	0-50 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Sodium(Na)	0-150 (ppm)	0.00 ppm
Purity(HPLC)	99.5-100 (%)	99.88400%
(Pb)Lead	0-5 (ppm)	0.00 ppm
Chloride (Cl-)	0-500 (ppm)	0.00 ppm
Iron(Fe)	0-10 (ppm)	0.00 ppm
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Loss on drying	0-0.1 (%)	0.00%
Manganese(Mn)	0-5	0.00
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Sulfate(SO42-)	0-100 (ppm)	0.00 ppm
Copper(Cu)	0-6 (ppm)	0.00 ppm
Sulfate Ash	0-0.1 (%)	0.00%
Specific Rotation [α] ₂₀ /D(c=2 in 1 M HCl)	-224--214 (°)	-214.41°
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



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

John Su
QA & QC Manager