

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-01-31 15:41:53
 Date of Next Testing: 2028-01-30 15:41:53
 Product Name: **L-Cystine**
 CAS Number: 56-89-3
 Specifications & Purity: Ultra pure , 99.5%
 Lot #: A2424092
 SKU #: **C108227**
Analysis: **311322**
 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 (%)	99.95100 %
(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 (°)	-214.44 °
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



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

John Su
QA & QC Manager