

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-07-04 16:49:45

Date of Next Testing: 2030-07-03 16:49:45

Product Name: **L-Cysteine hydrochloride monohydrate**

CAS Number: 7048-04-6

Specifications & Purity: Animal Free, PharmPure™, USP, Ph.Eur., for cell culture

Lot #: G2603576

SKU #: **C118575**

Version: **3**

Analysis #: **729545**

Storage Temperature: Protected from light, Room temperature, Argon charged

Parameter	Limit Values	Result
Sulfate(SO42-)	0-0.02 (%)	0.00100 %
Ammonia (NH4)	0-0.02 (%)	0.00250 %
PH(1% in Water)	1.5-2	1.71000
Heavy metal (as Pb)	0-10 (ppm)	0.00000 ppm
Ignition Residue	0-0.1 (%)	0.10000 %
Purity(titration with AgNO3)(dry basis)	98.5-101 (%)	100.95000 %
Endotoxin Assay	0-1 (EU/mg)	0.00450 EU/mg
Loss on drying	8.5-12 (%)	8.51000 %
Iron(Fe)	0-10 (ppm)	10.00000 ppm
Chloride (Cl-)	19.89-20.29 (%)	20.28000 %
Specific Rotation [α] ₂₀ /D(c=8 in 1mol/L HCl) (dry basis)	5.5-7 (°)	5.51000 °
Appearance (C118575)	White Crystals, Powder or Crystalline Solid	White Crystals, Powder or Crystalline Solid
Solubility in H ₂ O , Colorless Clear 100 mg/ml	pass	Pass
Cell Culture Test	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Ninhydrin-positive substances (other amino acids)	Conforms	Conforms
Residual solvents	complies	complies
Origin	non-animal source	non-animal source



QualityAssurance@aladdinsci.com

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

John Su
QA & QC Manager