

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-09-18 14:14:25
 Date of Next Testing: 2029-09-17 14:14:25
 Product Name: **Citric acid**
 CAS Number: 77-92-9
 Grades & Purity: UltraBio™, anhydrous, ≥99.5%(T)
 Lot #: I2616913
 SKU #: **C755557**
 Version: **2**
 Analysis #: **690749**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Assay(Titration by NaOH)	99.5-100.5 (%)	100.45000 %
Loss on drying	0-0.5 (%)	0.04340 %
Sulphated ash	0-0.05 (%)	0.00000 %
Aluminum(Al)	0-5 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00000 ppm
Bismuth(Bi)	0-5 (ppm)	0.00000 ppm
Calcium(Ca)	0-10 (ppm)	0.00000 ppm
Cadmium(Cd)	0-5 (ppm)	0.00000 ppm
Cobalt(Co)	0-5 (ppm)	0.00000 ppm
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
Iron(Fe)	0-5 (ppm)	0.00000 ppm
Potassium(K)	0-50 (ppm)	0.00000 ppm
Lithium(Li)	0-5 (ppm)	0.00000 ppm
Magnesium(Mg)	0-5 (ppm)	0.00000 ppm
Manganese(Mn)	0-5 (ppm)	0.00000 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00000 ppm
Sodium(Na)	0-50 (ppm)	2.00000 ppm
Nickel(Ni)	0-5 (ppm)	0.00000 ppm
Lead(Pb)	0-5 (ppm)	0.00000 ppm
Strontium(Sr)	0-5 (ppm)	0.00000 ppm
Zinc(Zn)	0-5 (ppm)	0.00000 ppm
Arsenic(As)	0-0.1 (ppm)	0.00000 ppm
Total sulfur as SO ₄ (ICP)	0-20 (ppm)	0.00000 ppm
Chloride (Cl ⁻)	0-5 (ppm)	0.00000 ppm

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Parameter	Limit Values	Result
Phosphate(PO ₄)	0-5 (ppm)	0.00000 ppm
PH(5.773 g in 30 ml H ₂ O)	1-2	1.49300
UV Absorbance 260nm(at 1M in H ₂ O)	0-0.2	0.08490
UV Absorbance 280nm(at 1M in H ₂ O)	≤ 0.1	0.03430
Oxalate	≤ 0.05 (%)	0.01000 %
Appearance of solution (5.773 g in 30 ml H ₂ O(1 M)	Clear Colorless	Clear Colorless
Filter Test : 5.773 g in 30 ml H ₂ O (1M)	No Residue	no residue
Appearance(C755557)	Colorless or white crystalline particles or powder	Colorless or white crystalline particles or powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
metal trace analysis (icp)	corresponds to requirements	CORRESPONDS TO REQUIREMENTS



John Su
QA & QC Manager