

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-02 17:55:44  
Date of Next Testing: 2027-03-01 17:55:44  
Product Name: **Citric acid monohydrate**  
CAS Number: 5949-29-1  
Specifications & Purity: ACS, 99.0-102.0%  
Lot #: B2327220  
SKU #: **C112635**  
Analysis: **194156**

Parameter	Limit Values	Result
Phosphate(PO <sub>4</sub> )	0-0.001 (%)	0.00 %
Chloride (Cl <sup>-</sup> )	0-0.001 (%)	0.00 %
Assay	99-102 (%)	99.79 %
Iron(Fe)	0-3 (ppm)	1.50 ppm
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-0.002 (%)	0.00 %
Lead(Pb)	0-2 (ppm)	1.80 ppm
Ignition Residue (as sulfate)	0-0.02 (%)	0.00 %
Insoluble matter	0-0.005 (%)	0.00 %
Appearance (C112635)	Colorless or White Powder or Crystals	Colorless or White Powder or Crystals
oxalate (C <sub>2</sub> O <sub>4</sub> <sup>2-</sup> , limit about 0.05%)	To pass test	to pass test
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Readily carbonizable substance	pass	Pass



John Su  
QA & QC Manager