

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-10-18 16:50:34  
Date of Next Testing: 2028-10-17 16:50:34  
Product Name: **tri-Sodium citrate dihydrate**  
CAS Number: 6132-04-3  
Specifications & Purity: Ph.Eur., Suitable for Analysis, ACS, Premium pure  
Lot #: J2517736  
SKU #: **T433112**  
Version: **1**  
Analysis #: **572744**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Insoluble matter in H <sub>2</sub> O	0-0.005 (%)	0.00%
PH (5%, water) 25 ° C	7.5-9	8.95
(PO <sub>4</sub> )Phosphate	0-0.002 (%)	0.00%
Heavy metal (as Pb)	0-0.0005 (%)	0.00%
Calcium(Ca)	0-0.005 (%)	0.00%
Iron(Fe)	0-0.0005 (%)	0.00%
Assay(perchloric acid titration)	99-101 (%)	99.39000%
Chloride (Cl <sup>-</sup> )	0-0.001 (%)	0.00%
oxalate (C <sub>2</sub> O <sub>4</sub> <sup>2-</sup> )	0-0.03 (%)	0.02%
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-0.004 (%)	0.00%
Ammonia (NH <sub>3</sub> )	0-0.003 (%)	0.00%
Total Nitrogen	0-0.001 (%)	0.00%
Water by Karl Fischer	11.0-13 (%)	12.95%
Assay(Perchloric acid titration, calc. on anhydrous substance)	99-101 (%)	99.05000%
Appearance(T433112)	White Powder or Crystals	White Powder or Crystals
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager