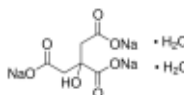


Certificate of Analysis

Product Name:

Sodium citrate tribasic dihydrate - puriss. p.a., ACS reagent, ≥99.0% (NT)

Product Number: 71405
Batch Number: BCCJ3257
Brand: SIAL
CAS Number: 6132-04-3
Formula: C₆H₅Na₃O₇ · 2H₂O
Formula Weight: 294,10 g/mol
Quality Release Date: 22 SEP 2022
Recommended Retest Date: FEB 2026



Test	Specification	Result
Appearance (Color)	Colorless or White	White
Appearance (Form)	Crystals	Crystals
Titration with HClO ₄	99.0 - 101.0 %	100.9 %
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
0.5g in 10ml Water ACS		
PH of Solution (PH)	7.5 - 9.0	7.9
0.5g in 10ml Water ACS		
Water	11.0 - 13.0 %	11.9 %
Meets ACS Requirements	Corresponds to Requirements	Corresponds
ACS Specifications	Corresponds to Requirements	Corresponds
Insoluble Matter <= 0.005%		
Metal Trace Analysis (ICP)	Corresponds to Requirements	Pass
Calcium (Ca)	≤ 50 mg/kg	< 50 mg/kg
Cadmium (Cd)	≤ 5 mg/kg	< 5 mg/kg
Cobalt (Co)	≤ 5 mg/kg	< 5 mg/kg
Chromium (Cr)	≤ 5 mg/kg	< 5 mg/kg
Copper (Cu)	≤ 5 mg/kg	< 5 mg/kg
Iron (Fe)	≤ 5 mg/kg	< 5 mg/kg
Potassium (K)	≤ 50 mg/kg	< 50 mg/kg
Magnesium (Mg)	≤ 5 mg/kg	< 5 mg/kg
Manganese (Mn)	≤ 5 mg/kg	< 5 mg/kg
Nickel (Ni)	≤ 5 mg/kg	< 5 mg/kg

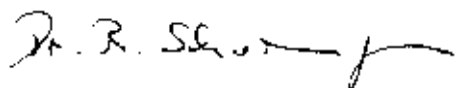
Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Certificate of Analysis

Product Number: 71405
Batch Number: BCCJ3257

Test	Specification	Result
Lead (Pb)	≤ 5 mg/kg	< 5 mg/kg
Zinc (Zn)	≤ 5 mg/kg	< 5 mg/kg
Total Sulfur	≤ 50 mg/kg	< 50 mg/kg
as SO ₄ (ICP)		
Heavy Metal	≤ 5 mg/kg	< 5 mg/kg
Chloride (Cl)	≤ 10 mg/kg	< 10 mg/kg
Ammonia (NH ₄)	≤ 10 mg/kg	< 10 mg/kg
(Ion Chromatography)		



Dr. Reinhold Schwenninger
Quality Assurance
Buchs, Switzerland CH

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