

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

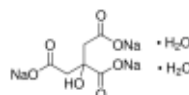
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Product Specification

Product Name:
Sodium citrate tribasic dihydrate - BioUltra, for molecular biology, ≥99.5% (NT)

Product Number: **71402**
 CAS Number: 6132-04-3
 MDL: MFCD00150031
 Formula: C₆H₅Na₃O₇ · 2H₂O
 Formula Weight: 294.10 g/mol



TEST	Specification
Appearance (Color)	Colorless or White
Appearance (Form)	Crystals
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
0.1 M in H ₂ O	
Total Sulfur	≤ 50 mg/kg
as SO ₄	
Insoluble Matter	Pass
passes filter test	
Chloride (Cl)	≤ 10 mg/kg
Aluminum (ICP)	≤ 5 mg/kg
Lead (ICP)	≤ 5 mg/kg
Bismuth (ICP)	≤ 5 mg/kg
Iron (ICP)	≤ 5 mg/kg
Lithium (ICP)	≤ 5 mg/kg
Molybdenum (ICP)	≤ 5 mg/kg
Nickel (ICP)	≤ 5 mg/kg
Potassium (ICP)	≤ 100 mg/kg
Calcium (ICP)	≤ 10 mg/kg
Magnesium (ICP)	≤ 5 mg/kg
Chromium (ICP)	≤ 5 mg/kg
Manganese (ICP)	≤ 5 mg/kg
Ammonia (NH ₄)	≤ 0.001 %
Copper (ICP)	≤ 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.

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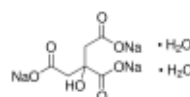
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Formula Weight: 294.10 g/mol



TEST	Specification
Barium (ICP)	≤ 5 mg/kg
Zinc (ICP)	≤ 5 mg/kg
Cadmium (ICP)	≤ 5 mg/kg
Cobalt (ICP)	≤ 5 mg/kg
A280 UV Absorption (0.1 M in H ₂ O)	≤ 0.01
A260 UV Absorption 0.1M in H ₂ O	≤ 0.01
pH (0.1 M in H ₂ O at 20 deg C)	7.5 - 9.0
Titration by HClO ₄	99.5 - 101.0 %
Water (by Karl Fischer)	11 - 13 %
Extraneous Activities DNAases, RNAases, Proteases, Phosphatases	None Detected
Arsenic Traces (MHS-AAS)	≤ 0.1 mg/kg
Recommended Retest Period 54 months	-----

Specification: PRD.0.ZQ5.10000101564

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