



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-394274  
Lot Number: SAMPLE  
Product Name: Sodium Citrate Tribasic Dihydrate (Molecular Biology Grade)  
CAS Number: 6132-04-3  
Molecular Formula:  $C_6H_5O_7 \cdot 2H_2O \cdot 3Na$   
Molecular Weight: 294.10

Test	Specification	Result
Appearance	White / colorless fine crystals to crystals	Colorless crystals
Purity (Nonaqueous Titration)	99.5 - 101.0%	100.0%
pH	7.5 - 9.0	8.4
Residue	No residue (filter test)	Complies
Solubility	Clear colorless at 0.1 in water	Complies
Trace metal analysis	Consistent with requirements	Complies
UV Absorption	$\leq 0.01$ at 260 nm $\leq 0.01$ at 280 nm	0.003 0.001
Aluminum	$\leq 5$ mg/kg (ICP)	$< 5$ mg/kg
Ammonium	$\leq 10$ mg/kg (ion chromatography)	$< 10$ mg/kg
Arsenic	Arsenic traces: $\leq 0.1$ mg/kg (MHS-AAS)	$< 0.100$ mg/kg
Barium	$\leq 5$ mg/kg (ICP)	$< 5$ mg/kg
Bismuth	$\leq 5$ mg/kg (ICP)	$< 5$ mg/kg
Cadmium	$\leq 10$ mg/kg (ICP)	$< 10$ mg/kg
Cadmium	$\leq 5$ mg/kg (ICP)	$< 5$ mg/kg
Chloride	$\leq 10$ mg/kg	$< 10$ mg/kg
Chromium	$\leq 5$ mg/kg (ICP)	$< 5$ mg/kg
Cobalt	$\leq 5$ mg/kg (ICP)	$< 5$ mg/kg
Copper	$\leq 5$ mg/kg (ICP)	$< 5$ mg/kg
Iron	$\leq 5$ mg/kg (ICP)	$< 5$ mg/kg

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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Lead	$\leq 5$ mg/kg (ICP)	< 5 mg/kg
Lithium	$\leq 5$ mg/kg (ICP)	< 5 mg/kg
Magnesium	$\leq 5$ mg/kg (ICP)	< 5 mg/kg
Manganese	$\leq 5$ mg/kg (ICP)	< 5 mg/kg
Molybdenum	$\leq 5$ mg/kg (ICP)	< 5 mg/kg
Nickel	$\leq 5$ mg/kg (ICP)	< 5 mg/kg
Potassium	$\leq 100$ mg/kg (ICP)	< 100 mg/kg
Sulfur	$\leq 50$ mg/kg (as SO <sub>4</sub> , ICP)	< 50 mg/kg
Water Content	11 - 13%	11.2%
Zinc	$\leq 5$ mg/kg (ICP)	< 5 mg/kg
DNase	Not detectable	Complies
Phosphatase	Not detectable	Complies
Protease	Not detectable	Complies
RNase	Not detectable	Complies

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