

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-05-20 15:38:21
 Date of Next Testing: 2026-05-10 15:38:21
 Product Name: **Tris(hydroxymethyl)aminomethane**
 CAS Number: 77-86-1
 Specifications & Purity: for molecular biology, ≥99.9%(T)
 Lot #: H2205570
 SKU #: **T110601**
 Version: **1**
 Analysis #: **360044**
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Molybdenum(Mo)	0-5 (ppm)	2.50 ppm
UV Absorbance 280nm (4 M in H ₂ O)	0-0.08	0.08
useful PH range	7-9	8.00
UV Absorbance 260nm (4 M in H ₂ O)	0-0.1	0.07
Ignition Residue (as sulfate)	0-0.01 (%)	0.01 %
Sodium(Na)	0-50 (ppm)	23.78 ppm
Chromium(Cr)	0-5 (ppm)	3.10 ppm
Iron(Fe)	0-5 (ppm)	3.20 ppm
Sulfate(SO ₄ ²⁻)	0-5 (ppm)	0.00 ppm
(Pb)Lead	0-5 (ppm)	2.10 ppm
Nickel(Ni)	0-5 (ppm)	2.30 ppm
Chloride (Cl ⁻)	0-20 (ppm)	11.20 ppm
Lithium(Li)	0-5 (ppm)	3.60 ppm
Strontium(Sr)	0-5 (ppm)	2.40 ppm
Cadmium(Cd)	0-5 (ppm)	2.32 ppm
Magnesium(Mg)	0-5 (ppm)	3.10 ppm
Purity (Titration by H ₂ SO ₄)	99.7-100.3 (%)	100.17 %
PH	10.5-12	10.90
Potassium(K)	0-50 (ppm)	25.03 ppm
Loss on drying	0-0.5 (%)	0.22 %
Bismuth(Bi)	0-5 (ppm)	3.10 ppm
(As)Arsenic	0-0.1 (ppm)	0.10 ppm
Barium(Ba)	0-5 (ppm)	3.38 ppm
Zinc(Zn)	0-5 (ppm)	2.43 ppm
Copper(Cu)	0-5 (ppm)	3.00 ppm

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Parameter	Limit Values	Result
Cobalt(Co)	0-5 (ppm)	3.10 ppm
Aluminum(Al)	0-5 (ppm)	3.20 ppm
Calcium(Ca)	0-10 (ppm)	6.20 ppm
Manganese(Mn)	0-5 (ppm)	2.70 ppm
DNases	none detected	none detected
Insoluble matter	pass	Pass
phosphatases	none detected	none detected
pKa	6.8	6.8
proteases	none detected	none detected
RNases	none detected	none detected
Solubility in H ₂ O , soluble , 1M , 20°C, clear, colorless	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager