

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-11-13 10:47:43
 Date of Next Testing: 2027-11-03 10:47:43
 Product Name: **Tris(hydroxymethyl)aminomethane (Tris base)**
 CAS Number: 77-86-1
 Specifications & Purity: Suitable for molecular biology, ≥99.9%(T)
 Lot #: K2511593
 SKU #: **T110601**
 Version: **1**
 Analysis #: **594189**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Molybdenum(Mo)	0-5 (ppm)	0.52600 ppm
Ignition Residue (as sulfate)	0-0.01 (%)	0.00241 %
Sodium(Na)	0-50 (ppm)	1.02400 ppm
Chromium(Cr)	0-5 (ppm)	0.24800 ppm
Iron(Fe)	0-5 (ppm)	0.41800 ppm
Sulfate(SO42-)	0-5 (ppm)	0.00000 ppm
(Pb)Lead	0-5 (ppm)	0.24100 ppm
Nickel(Ni)	0-5 (ppm)	0.11800 ppm
Chloride (Cl-)	0-20 (ppm)	1.05200 ppm
Lithium(Li)	0-5 (ppm)	0.02540 ppm
Strontium(Sr)	0-5 (ppm)	0.41800 ppm
Cadmium(Cd)	0-5 (ppm)	0.41800 ppm
Magnesium(Mg)	0-5 (ppm)	0.41500 ppm
pH	10.5-12	10.97000
Potassium(K)	0-50 (ppm)	1.42800 ppm
Loss on drying	0-0.5 (%)	0.11700 %
Bismuth(Bi)	0-5 (ppm)	0.10500 ppm
(As)Arsenic	0-0.1 (ppm)	0.03240 ppm
Barium(Ba)	0-5 (ppm)	0.14800 ppm
Zinc(Zn)	0-5 (ppm)	0.25300 ppm
Copper(Cu)	0-5 (ppm)	0.40500 ppm
Cobalt(Co)	0-5 (ppm)	0.41800 ppm
Aluminum(Al)	0-5 (ppm)	0.41800 ppm
Calcium(Ca)	0-10 (ppm)	0.36200 ppm
Manganese(Mn)	0-5 (ppm)	0.41500 ppm

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Parameter	Limit Values	Result
Purity (Titration by H ₂ SO ₄)	99.7-100.3 (%)	100.24000 %
UV Absorbance 260nm (4 M in H ₂ O)	0-0.1	0.06100
UV Absorbance 280nm (4 M in H ₂ O)	0-0.08	0.05000
useful PH range	7-9	8.10000
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