

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2024-08-12 16:01:00
Date of Next Testing:	2026-08-02 16:01:00
Product Name:	Tris(hydroxymethyl)aminomethane hydrochloride
CAS Number:	1185-53-1
Specifications & Purity:	for molecular biology and cell culture, ≥99.0%(AT)
Lot #:	J2228334
SKU #	T105291
Version	1
Analysis #:	398196
Storage Temperature:	Room temperature

Parameter	Limit Values	Result
Sodium(Na)	0-50 (ppm)	0.00 ppm
UV Absorbance 260nm	0-0.06	0.04
Loss on drying	0-0.2 (%)	0.20 %
Calcium(Ca)	0-10 (ppm)	1.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Ignition Residue (as sulfate)	0-0.2 (%)	0.00 %
PH(25 °C, 4 M in Water)	2.5-4	2.50
Strontium(Sr)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Barium(Ba)	0-5 (ppm)	0.00 ppm
UV Absorbance 290nm	0-0.05	0.04
Aluminum(Al)	0-5 (ppm)	0.00 ppm
useful PH range	7-9	7.60
Manganese(Mn)	0-5 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
UV Absorbance 280nm	0-0.06	0.04
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Sulfate(SO42-)	0-50 (ppm)	0.00 ppm
(As)Arsenic	0-0.1 (ppm)	0.00 ppm
Magnesium(Mg)	0-5 (ppm)	0.00 ppm

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Parameter	Limit Values	Result
Lithium(Li)	0-5 (ppm)	0.00 ppm
Cobalt(Co)	0-5 (ppm)	0.00 ppm
(Pb)Lead	0-5 (ppm)	0.00 ppm
Assay(Titration by AgNO ₃)	99-102.5 (%)	100.80 %
Appearance (T105291)	White Powder or Crystals	White Powder or Crystals
Cell Culture Test	pass	Pass
DNases	none detected	none detected
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insoluble matter	pass	Pass
phosphatases	none detected	none detected
proteases	none detected	none detected
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
RNases	none detected	none detected
Solubility in H ₂ O , soluble , 1M , 20°C, clear, colorless	pass	Pass
λ,4 M in H ₂ O	Pass	Pass



John Su
QA & QC Manager