

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2025-09-16 08:47:35
Date of Next Testing:	2028-09-15 08:47:35
Product Name:	Tris(hydroxymethyl)aminomethane hydrochloride(Tris HCl)
CAS Number:	1185-53-1
Specifications & Purity:	BioReagent Plus, ≥99%
Lot #:	I2504713
SKU #	T431531
Version	1
Analysis #:	556939

Parameter	Limit Values	Result
Water by Karl Fischer	0-0.5 (%)	0.36 %
Loss on drying	0-0.5 (%)	0.33 %
Purity (Titration by NaOH)	99-101.5 (%)	100.10 %
Melting point	149-155 (°C)	151.10000 °C
Endotoxin	0-50 (EU/g)	1.97000 EU/g
Arsenic(As)	0-3 (ppm)	0.00000 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Manganese(Mn)	0-5 (ppm)	0.00 ppm
Calcium(Ca)	0-10 (ppm)	0.00 ppm
Lead(Pb)	0-5 (ppm)	0.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Lithium(Li)	0-5 (ppm)	1.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Aluminum(Al)	0-5 (ppm)	0.00 ppm
Antimony(Sb)	0-5 (ppm)	2.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00 ppm
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
UV Absorbance 260nm(1M aqueous)	0-0.06	0.01900
UV Absorbance 280nm(1M aqueous)	0-0.05	0.01400
pH(1% aqueous)	4.2-5	4.89000

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Parameter

Yeast and Mold

Solubility 1.0 M aqueous, Colorless Clear

NMR Spectrum 1H

Limit Values

0-100 (CFU/g)

pass

Conforms to Structure

Result

89.00000 cfu/g

Pass

Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager