

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-09-16 08:55:28
 Date of Next Testing: 2028-09-15 08:55:28
 Product Name: **Tris(hydroxymethyl)aminomethane hydrochloride(Tris HCl)**
 CAS Number: 1185-53-1
 Specifications & Purity: BioReagent Plus, ≥99%
 Lot #: I2504696
 SKU #: **T431531**
 Version: **1**
 Analysis #: **556939**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-0.5 (%)	0.35730 %
Loss on drying	0-0.5 (%)	0.33420 %
Purity (Titration by NaOH)	99-101.5 (%)	100.10000 %
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)	0.00000 ppm
Zinc(Zn)	0-5 (ppm)	0.00000 ppm
Magnesium(Mg)	0-5 (ppm)	0.00000 ppm
Manganese(Mn)	0-5 (ppm)	0.00000 ppm
Calcium(Ca)	0-10 (ppm)	0.00000 ppm
Lead(Pb)	0-5 (ppm)	0.00000 ppm
Bismuth(Bi)	0-5 (ppm)	0.00000 ppm
Lithium(Li)	0-5 (ppm)	1.00000 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00000 ppm
Aluminum(Al)	0-5 (ppm)	0.00000 ppm
Antimony(Sb)	0-5 (ppm)	2.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00000 ppm
Cobalt(Co)	0-5 (ppm)	0.00000 ppm
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Cadmium(Cd)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
Nickel(Ni)	0-5 (ppm)	0.00000 ppm
UV Absorbance 260nm(1M aqueous)	0-0.06	0.01900
UV Absorbance 280nm(1M aqueous)	0-0.05	0.01400

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Parameter	Limit Values	Result
pH(1% aqueous)	4.2-5	4.89000
Yeast and Mold	0-100 (CFU/g)	89.00000 cfu/g
Solubility1.0 M aqueous,Colorless Clear	pass	Pass
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager