

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2025-07-16 09:25:23
Date of Next Testing:	2029-07-15 09:25:23
Product Name:	Tris(hydroxymethyl)aminomethane hydrochloride(Tris HCl)
CAS Number:	1185-53-1
Specifications & Purity:	Ultra pure, ≥99%
Lot #:	G2510603
SKU #	T105289
Version	1
Analysis #:	533292
Storage Temperature:	Room temperature

Parameter	Limit Values	Result
Lead(Pb)	0-0.0005 (%)	0.00 %
Copper(Cu)	0-0.0005 (%)	0.00 %
UV Absorbance 260nm(at 1M in H2O)	0-0.06	0.01
Cobalt(Co)	0-0.0005 (%)	0.00 %
Purity (Titration by NaOH)	99-101 (%)	99.95 %
Sulfate(SO42-)	0-0.005 (%)	0.00 %
Ignition Residue (as sulfate)	0-0.2 (%)	0.10 %
Carbon by Elemental Analysis	29.55-31.38 (%)	30.48 %
UV Absorbance 280nm(at 1M in H2O)	0-0.06	0.01
Strontium(Sr)	0-0.0005 (%)	0.00 %
Zinc(Zn)	0-0.0005 (%)	0.00 %
Cadmium(Cd)	0-0.0005 (%)	0.00 %
Barium(Ba)	0-0.0005 (%)	0.00 %
Nitrogen by Elemental Analysis	8.6-9.1 (%)	8.89 %
Bismuth(Bi)	0-0.0005 (%)	0.00 %
Loss on drying	0-0.2 (%)	0.03 %
Aluminum(Al)	0-0.0005 (%)	0.00 %
UV Absorbance 290nm(40%,H2O)	0-0.05	0.02
Oxygen by Elemental Analysis	30-30.7 (%)	30.21 %
Appearance (T105289)	White Powder or Crystals	White Powder or Crystals
Insoluble matter	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H2O , Colorless and clear(0.5M,20°C)	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager