

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2022-04-01 11:00:33
Date of Next Testing:	2026-03-31 11:00:33
Product Name:	Tris(hydroxymethyl)aminomethane
CAS Number:	77-86-1
Specifications & Purity:	EP, USP, for cell culture test, ≥ 99.9% (T)
Lot #:	C2224296
SKU #	T110598
Analysis:	080065

Parameter	Limit Values	Result
Loss on drying(EP)	0-0.5 (%)	0.03 %
Melting point	168-172 (°C)	170.90000 °C
Ignition Residue(Ash)	0-0.1 (%)	0.04 %
Water by Karl Fischer	0-0.2 (%)	0.12 %
Iron(Fe)(ICP)	0-1 (ppm)	0.45 ppm
Heavy metal (as Pb)	0-2 (ppm)	1.10 ppm
PH(5% in water)	10-11.5	10.50
UV Absorbance 280nm(40%,H2O)	0-0.4	0.04
UV Absorbance 290nm(40%,H2O)	0-0.4	0.03
UV Absorbance 260nm(40%,H2O)	0-0.4	0.06
Purity (Titration by H2SO4)	99.7-100.3 (%)	100.01 %
Appearance (T110598)	White to Off-White Solid, Powder, or Crystals	White to Off-White Solid, Powder, or Crystals
Identity Test B (USP)	Pass	Pass
Identity Test C (USP)	Pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Related substances	Pass	Pass
Solubility in H2O , clear colorless , 200g plus 300ml of water	pass	Pass



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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