

## Certificate of Analysis

Date of Testing: 2022-07-26 15:18:51  
Date of Next Testing: 2026-07-25 15:18:51  
Product Name: **Tris(hydroxymethyl)aminomethane**  
CAS Number: 77-86-1  
Specifications & Purity: for cell culture, ≥99.9%(T)  
Lot #: G2220021  
SKU #: **T110602**  
Analysis: **091406**

Parameter	Limit Values	Result
UV Absorbance	0-0.05	0.03
Purity (T)	99.9-100 (%)	99.90 %
Heavy metal (as Pb)	0-2 (ppm)	1.00 ppm
Water by Karl Fischer	0-0.2 (%)	0.12 %
Melting point	168-172 (°C)	170.94000 °C
Appearance (T110602)	White to Off-White Powder or Solid or Chunks	White to Off-White Powder or Solid or Chunks
Cell Culture Test	pass	Pass
Solubility in H <sub>2</sub> O , clear colorless , 200g plus 300ml of water	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager