

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-11-13 09:28:30  
 Date of Next Testing: 2027-11-03 09:28:30  
 Product Name: **Tris(hydroxymethyl)aminomethane (Tris base)**  
 CAS Number: 77-86-1  
 Specifications & Purity: Suitable for molecular biology, ≥99.9%(T)  
 Lot #: K2511594  
 SKU #: **T110601**  
 Version: **1**  
 Analysis #: **594189**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                     | Limit Values | Result      |
|-------------------------------|--------------|-------------|
| Molybdenum(Mo)                | 0-5 (ppm)    | 0.52600 ppm |
| Ignition Residue (as sulfate) | 0-0.01 (%)   | 0.00241 %   |
| Sodium(Na)                    | 0-50 (ppm)   | 1.02400 ppm |
| Chromium(Cr)                  | 0-5 (ppm)    | 0.24800 ppm |
| Iron(Fe)                      | 0-5 (ppm)    | 0.41800 ppm |
| Sulfate(SO42-)                | 0-5 (ppm)    | 0.00000 ppm |
| (Pb)Lead                      | 0-5 (ppm)    | 0.24100 ppm |
| Nickel(Ni)                    | 0-5 (ppm)    | 0.11800 ppm |
| Chloride (Cl-)                | 0-20 (ppm)   | 1.05200 ppm |
| Lithium(Li)                   | 0-5 (ppm)    | 0.02540 ppm |
| Strontium(Sr)                 | 0-5 (ppm)    | 0.41800 ppm |
| Cadmium(Cd)                   | 0-5 (ppm)    | 0.41800 ppm |
| Magnesium(Mg)                 | 0-5 (ppm)    | 0.41500 ppm |
| pH                            | 10.5-12      | 10.97000    |
| Potassium(K)                  | 0-50 (ppm)   | 1.42800 ppm |
| Loss on drying                | 0-0.5 (%)    | 0.11700 %   |
| Bismuth(Bi)                   | 0-5 (ppm)    | 0.10500 ppm |
| (As)Arsenic                   | 0-0.1 (ppm)  | 0.03240 ppm |
| Barium(Ba)                    | 0-5 (ppm)    | 0.14800 ppm |
| Zinc(Zn)                      | 0-5 (ppm)    | 0.25300 ppm |
| Copper(Cu)                    | 0-5 (ppm)    | 0.40500 ppm |
| Cobalt(Co)                    | 0-5 (ppm)    | 0.41800 ppm |
| Aluminum(Al)                  | 0-5 (ppm)    | 0.41800 ppm |
| Calcium(Ca)                   | 0-10 (ppm)   | 0.36200 ppm |
| Manganese(Mn)                 | 0-5 (ppm)    | 0.41500 ppm |

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| Parameter                                                              | Limit Values          | Result                |
|------------------------------------------------------------------------|-----------------------|-----------------------|
| Purity (Titration by H <sub>2</sub> SO <sub>4</sub> )                  | 99.7-100.3 (%)        | 100.24000 %           |
| UV Absorbance 260nm (4 M in H <sub>2</sub> O)                          | 0-0.1                 | 0.06100               |
| UV Absorbance 280nm (4 M in H <sub>2</sub> O)                          | 0-0.08                | 0.05000               |
| useful PH range                                                        | 7-9                   | 8.10000               |
| DNases                                                                 | none detected         | none detected         |
| Insoluble matter                                                       | pass                  | Pass                  |
| phosphatases                                                           | none detected         | none detected         |
| pKa                                                                    | 6.8                   | 6.8                   |
| proteases                                                              | none detected         | none detected         |
| RNases                                                                 | none detected         | none detected         |
| Solubility in H <sub>2</sub> O , soluble , 1M , 20°C, clear, colorless | pass                  | Pass                  |
| Infrared spectrum                                                      | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager