

## Certificate of Analysis

Date of Testing: 2023-03-08 16:54:36  
Date of Next Testing: 2025-03-07 16:54:36  
Product Name: **Tris(hydroxymethyl)aminomethane (TRIS, Trometamol)**  
CAS Number: 77-86-1  
Specifications & Purity: ultrapure  
Lot #: C2303156  
SKU #: **T274250**  
**Analysis: 182600**  
Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                         | Limit Values          | Result                |
|-----------------------------------|-----------------------|-----------------------|
| UV Absorbance 290nm(40%,H2O)      | 0-0.2                 | 0.08                  |
| UV Absorbance 400nm(40%,H2O)      | 0-0.05                | 0.01300               |
| UV Absorbance 280nm(at 1M in H2O) | 0-0.5                 | 0.01                  |
| (As)Arsenic                       | 0-0.0005 (%)          | 0.00 %                |
| Copper(Cu)                        | 0-0.0001 (%)          | 0.00 %                |
| Insoluble matter                  | 0-0.005 (%)           | 0.00 %                |
| Iron(Fe)                          | 0-0.0001 (%)          | 0.00 %                |
| Lead(Pb)                          | 0-0.0001 (%)          | 0.00 %                |
| Magnesium(Mg)                     | 0-0.0005 (%)          | 0.00 %                |
| Melting point                     | 168-172 (°C)          | 171.54000 °C          |
| Moisture content                  | 0-1 (%)               | 0.09 %                |
| PH (5%, water) 25 ° C             | 10-11.5               | 11.10                 |
| Purity (Titration by H2SO4)       | 99.7-100.3 (%)        | 100.26 %              |
| Infrared spectrum                 | Conforms to Structure | Conforms to Structure |
| Solubility (10%, Water)           | Pass                  | Pass                  |



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

John Su  
QA & QC Manager