

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-07-07 09:29:39  
Date of Next Testing: 2029-07-06 09:29:39  
Product Name: **Tris(hydroxymethyl)aminomethane hydrochloride**  
CAS Number: 1185-53-1  
Specifications & Purity: Reagent grade, ≥99%  
Lot #: G2504528  
SKU #: **T105287**  
Version: **0**  
Analysis #: **494410**  
Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

| Parameter   | Limit Values             | Result                   |
|---|--------------------------|--------------------------|
| Heavy metal (as Pb)   | 0-5 (ppm)                | 0.00000 ppm              |
| Water by Karl Fischer   | 0-1 (%)                  | 0.47900 %                |
| Purity (Titration by NaOH)  | 99-100 (%)               | 99.74000 %               |
| Appearance (T105287)  | white crystalline powder | white crystalline powder |
| Proton NMR spectrum   | Conforms to Structure    | Conforms to Structure    |
| Solubility, Colorless, Clear, 200 g plus 300 ml of H <sub>2</sub> O | pass                     | Pass                     |
| Infrared spectrum   | Conforms to Structure    | Conforms to Structure    |



John Su  
QA & QC Manager