

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-10-14 09:24:38  
 Date of Next Testing: 2026-10-13 09:24:38  
 Product Name: **trichloroacetic acid(TCA)**  
 CAS Number: 76-03-9  
 Specifications & Purity: ACS, ≥99%  
 Lot #: J2209506  
 SKU #: **T104261**  
 Version: **1**  
 Analysis #: **102136**  
 Storage Temperature: Store at 2-8°C, Argon charged, Desiccated

| Parameter                                                | Limit Values          | Result                |
|----------------------------------------------------------|-----------------------|-----------------------|
| (NO <sub>3</sub> )Nitrate                                | 0-0.002 (%)           | 0.00100 %             |
| Phosphate(PO <sub>4</sub> )                              | 0-5 (ppm)             | 3.10000 ppm           |
| Melting point                                            | 54-58 (°C)            | 56.12000 °C           |
| Iron(Fe)                                                 | 0-0.001 (%)           | 0.00090 %             |
| Heavy metal (as Pb)                                      | 0-0.002 (%)           | 0.00000 %             |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> )                  | 0-0.02 (%)            | 0.01000 %             |
| Chloride Content                                         | 0-0.002 (%)           | 0.00100 %             |
| Ignition Residue(Ash)                                    | 0-0.03 (%)            | 0.00000 %             |
| Insoluble matter in H <sub>2</sub> O                     | 0-0.01 (%)            | 0.00000 %             |
| Assay                                                    | 99-100 (%)            | 99.96000 %            |
| Appearance (T104261)                                     | white powder or solid | white powder or solid |
| Clarity of solution                                      | pass                  | Pass                  |
| Substances Darkened (by H <sub>2</sub> SO <sub>4</sub> ) | Pass                  | Pass                  |
| Infrared spectrum                                        | Conforms to Structure | Conforms to Structure |



QualityAssurance@aladdinsci.com

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

John Su  
QA & QC Manager