

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-25 13:06:57  
 Date of Next Testing: 2027-07-24 13:06:57  
 Product Name: **trichloroacetic acid(TCA)**  
 CAS Number: 76-03-9  
 Specifications & Purity: ACS, ≥99%  
 Lot #: G23181288  
 SKU #: **T104261**  
 Version: **1**  
 Analysis #: **240469**  
 Storage Temperature: Store at 2-8°C, Argon charged, Desiccated

| Parameter                      | Limit Values          | Result                |
|--------------------------------|-----------------------|-----------------------|
| (NO3)Nitrate                   | 0-0.002 (%)           | 0.00000 %             |
| Phosphate(PO4)                 | 0-5 (ppm)             | 0.00000 ppm           |
| Iron(Fe)                       | 0-0.001 (%)           | 0.00000 %             |
| Heavy metal (as Pb)            | 0-0.002 (%)           | 0.00010 %             |
| Sulfate(SO42-)                 | 0-0.02 (%)            | 0.00000 %             |
| Chloride Content               | 0-0.002 (%)           | 0.00000 %             |
| Ignition Residue(Ash)          | 0-0.03 (%)            | 0.00000 %             |
| Insoluble matter in H2O        | 0-0.01 (%)            | 0.00000 %             |
| Assay                          | 99-100 (%)            | 99.78000 %            |
| Melting point                  | 54-58 (°C)            | 57.12000 °C           |
| Appearance (T104261)           | white powder or solid | white powder or solid |
| Clarity of solution            | pass                  | Pass                  |
| Substances Darkened (by H2SO4) | Pass                  | Pass                  |
| Infrared spectrum              | Conforms to Structure | Conforms to Structure |



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

John Su  
QA & QC Manager