

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-10 15:11:40
Date of Next Testing: 2024-05-09 15:11:40
Product Name: **Trifluoroacetic acid (TFA)**
CAS Number: 76-05-1
Specifications & Purity: for HPLC, $\geq 99.5\%$
Lot #: H2331048
SKU #: **T103294**
Analysis: 221145
Storage Temperature: Argon charged

| Parameter | Limit Values | Result |
|----------------------------|-----------------------|-----------------------|
| Evaporation Residue | 0-0.005 (%) | 0.00 % |
| Purity (Titration by NaOH) | 99.5-100 (%) | 99.72 % |
| UV Absorbance 280nm | 0-0.05 | 0.01 |
| UV Absorbance 320nm | 0-0.025 | 0.01 |
| Purity(GC) | 99.5-100 (%) | 99.55 % |
| UV Absorbance 300nm | 0-0.03 | 0.01 |
| Water by Karl Fischer | 0-0.05 (%) | 0.04 % |
| UV Absorbance 270nm | 0-0.1 | 0.07 |
| UV Absorbance 260nm | 0-0.9 | 0.85 |
| UV Absorbance 290nm | 0-0.04 | 0.01 |
| Appearance (T103294) | Colorless Liquid | Colorless liquid |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager