

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

| | |
|--------------------------|------------------------------------|
| Date of Testing: | 2024-12-04 14:05:07 |
| Date of Next Testing: | 2025-12-04 14:05:07 |
| Product Name: | Trifluoroacetic acid |
| CAS Number: | 76-05-1 |
| Specifications & Purity: | UltraPureChrom™, for LC-MS, ≥99.5% |
| Lot #: | L2402606 |
| SKU # | T103297 |
| Version | 1 |
| Analysis #: | 440309 |
| Storage Temperature: | Argon charged, Desiccated |

| Parameter | Limit Values | Result |
|-----------------------|--------------|----------|
| Barium(Ba) | 0-0.05 (ppm) | 0.02 ppm |
| Copper(Cu) | 0-0.02 (ppm) | 0.01 ppm |
| Cadmium(Cd) | 0-0.05 (ppm) | 0.01 ppm |
| Water by Karl Fischer | 0-0.05 (%) | 0.03 % |
| Nickel(Ni) | 0-0.05 (ppm) | 0.03 ppm |
| Potassium(K) | 0-0.1 (ppm) | 0.05 ppm |
| Cobalt(Co) | 0-0.02 (ppm) | 0.01 ppm |
| Titanium(Ti) | 0-0.05 (ppm) | 0.04 ppm |
| Molybdenum(Mo) | 0-0.02 (ppm) | 0.01 ppm |
| Calcium(Ca) | 0-0.2 (ppm) | 0.11 ppm |
| Lithium(Li) | 0-0.02 (ppm) | 0.00 ppm |
| Chromium(Cr) | 0-0.05 (ppm) | 0.02 ppm |
| Magnesium(Mg) | 0-0.5 (ppm) | 0.31 ppm |
| Sodium(Na) | 0-0.5 (ppm) | 0.03 ppm |
| (Pb)Lead | 0-0.1 (ppm) | 0.01 ppm |
| Manganese(Mn) | 0-0.05 (ppm) | 0.04 ppm |
| Aluminum(Al) | 0-0.05 (ppm) | 0.04 ppm |
| Iron(Fe) | 0-0.3 (ppm) | 0.20 ppm |
| Strontium(Sr) | 0-0.02 (ppm) | 0.01 ppm |
| Purity(GC) | 99.5-100 (%) | 99.90 % |
| UV Absorbance 290nm | 0-0.04 | 0.02 |
| UV Absorbance 270nm | 0-0.1 | 0.07 |
| UV Absorbance 260nm | 0-0.9 | 0.79 |
| UV Absorbance 320nm | 0-0.025 | 0.01 |
| UV Absorbance 300nm | 0-0.03 | 0.02 |

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| Parameter | Limit Values | Result |
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| UV Absorbance 280nm | 0-0.05 | 0.03 |
| λ , H ₂ O reference | Pass | Pass |
| Appearance (T103297) | Colorless Liquid | Colorless liquid |
| LC-MS Test | Pass | Pass |

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

John Su
QA & QC Manager