

CERTIFICATE OF ANALYSIS

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|---------------------------|---|-------------------------|-----------|
| Product Name | Trifluoroacetic acid, LC-MS grade | | |
| Synonyms | TFA | | |
| CAS No | 76-05-1 | | |
| Product code | SY00019 | Batch No | LTRBF0613 |
| Molecular Formula | C ₂ HF ₃ O ₂ | Molecular Weight | 114.02 |
| Mfg. Date | June-26 | Retest Date | May-28 |
| Storage Conditions | Store at room temperature, tightly closed container | | |

| Test | Specification | Results |
|-----------------------------|-------------------------|-------------------------|
| Appearance | Clear colourless liquid | Clear colourless liquid |
| Water (K.F) | ≤0.05 | 0.05 |
| Boiling Point | 73 °C | 73 °C |
| Assay (GC) | ≥99 % | 99.90% |
| Silver (Ag) | ≤ 0.02 ppm | <0.02 ppm |
| Aluminium (Al) | ≤ 0.1 ppm | <0.1 ppm |
| cadmium (Cd) | ≤ 0.05 ppm | <0.05 ppm |
| cobalt (Co) | ≤ 0.02 ppm | <0.02 ppm |
| chromium (Cr) | ≤ 0.1 ppm | <0.1 ppm |
| copper (Cu) | ≤ 0.02 ppm | <0.02 ppm |
| iron (Fe) | ≤ 1 ppm | <1 ppm |
| potassium (K) | ≤ 0.1 ppm | <0.1 ppm |
| lithium (Li) | ≤ 0.02 ppm | <0.02 ppm |
| magnesium (Mg) | ≤ 0.5 ppm | <0.5 ppm |
| manganese (Mn) | ≤ 0.05 ppm | <0.05 ppm |
| sodium (Na) | ≤ 1 ppm | <1 ppm |
| nickel (Ni) | ≤ 0.1 ppm | <0.1 ppm |
| lead (Pb) | ≤ 0.02 ppm | <0.02 ppm |
| zinc (Zn) | ≤ 0.05 ppm | <0.05 ppm |
| chloride (Cl) | ≤ 50 ppm | <50 ppm |
| sulfate (SO ₄) | ≤ 50 ppm | <50 ppm |
| sulfite (SO ₃) | ≤ 10 ppm | <10 ppm |
| ammonium (NH ₄) | ≤ 10 ppm | <10 ppm |
| LC-MS test | complying | complying |
| absorbance at 320 nm | max. 0.025 | <0.025 |
| absorbance at 300 nm | max. 0.03 | <0.03 |
| absorbance at 290 nm | max. 0.04 | <0.04 |
| absorbance at 280 nm | max. 0.05 | <0.05 |
| absorbance at 270 nm | max. 0.1 | <0.1 |
| absorbance at 260 nm | max. 0.9 | <0.9 |

Approved by
Dr. Gopinath PH. D

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