

## CERTIFICATE OF ANALYSIS

|                           |                                                     |                         |           |
|---------------------------|-----------------------------------------------------|-------------------------|-----------|
| <b>Product Name</b>       | Trifluoroacetic acid, LR grade                      |                         |           |
| <b>Synonyms</b>           | TFA                                                 |                         |           |
| <b>CAS No</b>             | 76-05-1                                             |                         |           |
| <b>Product code</b>       | SY00332                                             | <b>Batch No</b>         | LTRBF0708 |
| <b>Molecular Formula</b>  | C <sub>2</sub> HF <sub>3</sub> O <sub>2</sub>       | <b>Molecular Weight</b> | 114.02    |
| <b>Mfg. Date</b>          | June-26                                             | <b>Retest Date</b>      | May-28    |
| <b>Storage Conditions</b> | Store at room temperature, tightly closed container |                         |           |

| Test                         | Specification                                                                                                          | Results                              |
|------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Appearance</b>            | Colorless, hygroscopic fuming liquid                                                                                   | Colorless, hygroscopic fuming liquid |
| <b>Water (K.F)</b>           | ≤0.5                                                                                                                   | 0.035%                               |
| <b>Boiling Point</b>         | 73 °C                                                                                                                  | 73 °C                                |
| <b>Assay (By Titrimetry)</b> | ≥99.00%                                                                                                                | 99.31%                               |
| <b>Solubility</b>            | Miscible with Acetone                                                                                                  | Complies                             |
| <b>Identification by IC</b>  | The retention time of Trifluoroacetic acid peak matches with the retention time of Standard Trifluoroacetic Acid peak. | Complies                             |
| <b>Density (at 25° C)</b>    | 1.487-1.490g/ml                                                                                                        | 1.490 g/ml                           |

**Approved by**  
Dr. Gopinath PH. D

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