

**Qualikems**

## Qualikems Lifesciences Pvt. Ltd.

(Formerly known as Qualikems fine chem Pvt Ltd)

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### CERTIFICATE OF ANALYSIS

|                          |   |                                              |                         |   |             |
|--------------------------|---|----------------------------------------------|-------------------------|---|-------------|
| <b>Name of Product</b>   | : | Glycerine                                    | <b>CAS No.</b>          | : | 56-81-5     |
| <b>Molecular Formula</b> | : | C <sub>3</sub> H <sub>8</sub> O <sub>3</sub> | <b>Molecular Weight</b> | : | 92.09 g/mol |
| <b>Batch No.</b>         | : | QF2506117                                    | <b>Grade</b>            | : | LR          |
| <b>Mfg. Date</b>         | : | June-2025                                    | <b>Retest Date</b>      | : | May-2030    |

| Sr. No. | Tests                                                       | Specification                      | Observation |
|---------|-------------------------------------------------------------|------------------------------------|-------------|
| 1       | Appearance                                                  | Clear and colorless Viscous liquid | Complies    |
| 2       | Minimum assay                                               | 98 %                               | 98.74%      |
|         | <b>Maximum Limits of Impurities:</b>                        |                                    |             |
| 3       | Impurities with an acidic or alkaline reaction, ester       | Passes Test                        | Passes      |
| 4       | Refractive index                                            | 1.470 – 1.475                      | 1.473       |
| 5       | d <sub>20</sub> /4°                                         | 1.256 -1.261                       | 1.259       |
| 6       | Sulphate(SO <sub>4</sub> )                                  | 0.001 %                            | <0.001 %    |
| 7       | Heavy metals(as Pb)                                         | 0.0005 %                           | 0.0002 %    |
| 8       | Chloride(Cl)                                                | 0.001 %                            | <0.001 %    |
| 9       | Arsenic(As)                                                 | 0.0001 %                           | <0.0001 %   |
| 10      | Acrolein, glucose and ammonium compounds                    | To Pass Test                       | Passes Test |
| 11      | 1,2,4-Butanetriol(TLC)                                      | 0.2 %                              | 0.1 %       |
| 12      | Halogenated Compounds (as Cl)                               | 0.003 %                            | 0.001 %     |
| 13      | Sulphated ash                                               | 0.01 %                             | 0.006 %     |
| 14      | Water                                                       | 2 %                                | 1.25 %      |
| 15      | Substances decolorized by (H <sub>2</sub> SO <sub>4</sub> ) | To Pass Test                       | Passes Test |
| 16      | Sugar                                                       | To Pass Test                       | Passes Test |

**Conclusion:** Product complies as per above specification.

**Note:** This document has been produced electronically and it is valid without signature.

Quality of our product tested and reported in the COA are as per the specification and without any prejudice/liability what so ever the end product performance.

(An ISO 9001 : 2015 & 14001 : 2015 & 45001:2018 Certified Company)

\*NSIC - CRISIL SE 2B which indicates " High Performance Capability & Moderate Financial Strength\*