

**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>	:	QF2503017	<b>Grade</b>	:	LR
<b>Mfg. Date</b>	:	March-2025	<b>Retest Date</b>	:	February -2030

Sr. No.	Tests	Specification	Observation
1	Appearance	Clear and colorless Viscous liquid	Complies
2	Minimum assay	98 %	98.71%
	<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	1.472
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 %	0.004 %
14	Water	2 %	1.10 %
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 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\*