Qualikems Lifesciences Pvt. Ltd.

(Formerly known as Qualikems fine chem Pvt Ltd)
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CERTIFICATE OF ANALYSIS

Name of Product	**:**	Glycerine	**CAS No.**	**:**	56-81-5
Molecular Formula	**:**	$C_3H_8O_3$	**Molecular Weight**	**:**	92.09 g/mol
Batch No.	**:**	QF2501102	**Grade**	**:**	LR
Mfg. Date	**:**	January-2025	**Retest Date**	**:**	December-2029

Sr. No.	Tests	Specification	Observation
1	Appearance	Clear and colorless Viscous liquid	Complies
2	Minimum assay	98 %	98.62%
	Maximum Limits of Impurities:		
3	Impurities with an acidic or alkaline reaction, ester	Passes Test	Passes
4	Refractive index	1.470 – 1.475	1.473
5	d20/4°	1.256 -1.261	1.260
6	Sulphate(SO_4)	0.001 %	<0.001 %
7	Heavy metals(as Pb)	0.0005 %	0.0003 %
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 %	0.004 %
13	Sulphated ash	0.01 %	0.006 %
14	Water	2 %	1.01 %
15	Substances decolorized by (H_2SO_4)	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.