Qualikems Lifesciences Pvt. Ltd.

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CERTIFICATE OF ANALYSIS

Name of Product	:	Triethanolamine	**CAS No.**	:	102-71-6
Molecular Formula	:	$C_6H_{15}NO_3$	**Molecular Weight**	:	149.19 g/mole
Batch No.	:	QF2611072	**Grade**	:	LR
Mfg. Date	:	November-2026	**Retest Date**	:	October -2031

Sr. No.	Tests	Specification	Observation
1	Appearance	A clear colorless to pale yellow viscous liquid	Complies
2	Minimum	98.0 %	98.81 %
	Maximum limits of impurities:#		
3	pH-(15% solution)	10-13	12.1
4	d 20°/4°	1.120-1.127	1.124
5	Refractive index	1.483-1.486	1.484
6	Chloride(Cl)	0.01 %	<0.01 %
7	Sulphate (SO_4)	0.01 %	<0.01 %
8	Heavy metals(as Pb)	0.002%	0.001 %
9	Sulphated ash	0.05 %	0.04 %
10	Iron(Fe)	0.001%	<0.001 %
11	Water	0.5 %	0.3 %

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.