Qualikems Lifesciences Pvt. Ltd.

Ho & Works : Plot No. 68-69,G.I.D.C Industrial Estate, Nandesari, Vadodara-391340 (Guj.)
Telefax : 91-265-2841531,2841532,2841534,2841535
Email: salesindia@qualikems.com ,www.qualikems.com

CERTIFICATE OF ANALYSIS

Name of Product	**:**	Choline Chloride	**CAS No.**	**:**	67-48-1
Molecular Formula	**:**	$C_5H_{14}.ClNO$	**Molecular Weight**	**:**	139.63 g/mole
Batch No.	**:**	QF2610196	**Grade**	**:**	LR
Mfg. Date	**:**	October-2026	**Retest. Date**	**:**	September-2031

Sr. No.	Tests	Specification	Observation
1	Appearance	White crystalline solid	Complies
2	Assay(on dry material)	98 - 100.5%	98.56 %
	Maximum Allowable Impurities:		
3	Loss on drying at 110°C	1.0 %	0.5 %
4	Sulphated ash	0.2 %	0.14 %
5	Free amine (as dimethylamine)	0.1 %	0.05 %

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.