



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalogue Number	BIO-108
Lot Number	002556-120180509
Product	Choline chloride (2-Hydroxyethyl)trimethylammonium chloride
CAS Number	67-48-1
Molecular Formula	C ₅ H ₁₄ ClNO
Molecular Weight	139.63
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Appearance	Colorless or white crystals or crystalline powder
Heavy Metals	< 10 ppm
Cation	Lead (Pb) : < 0.3 ppm Arsenic (As) : < 2 ppm Mercury (Hg) : < 0.1 ppm Cadmium (Cd) : < 1.0 ppm
Water Content (Karl Fisher)	0.36%
pH	6.18
Yeast and Mold	< 100 cfu/g
Residual Solvents	Residual Solvent : < 10 ppm 1,4-Dioxane: < 10 µg/g
E. Coli, Salmonella, S.Aureus	Negative
Microbial Count	< 1000 cfu/g (TPC)
Particle Size	100% thr' 20 mesh
Related Substances	Individual impurities : < 0.3% Total impurities : < 2.0%
Residue On Ignition	0.03%
Assay (anhydrous basis)	99.2%
Grade	USP
Storage	Store at RT
Additional Information	Identification A, B : Conforms to USP Total amines : < 10 µg/g