



# INDOFINE Chemical Company, Inc.

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## Certificate of Analysis

Catalogue Number	BIO-108
Product	Choline chloride
Lot Number	002630-20190603 (2-Hydroxyethyl)trimethylammonium chloride
CAS Number	67-48-1
Molecular Formula	C <sub>5</sub> H <sub>14</sub> ClNO
Molecular Weight	139.63

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Appearance	White crystalline powder
Heavy Metals	< 10 ppm
Cation	Lead (Pb) : < 0.3 ppm Arsenic (As) : < 1 ppm Mercury (Hg) : < 0.1 ppm Cadmium (Cd) : < 0.2 ppm
pH	4.14
Yeast and Mold	< 100 cfu/g
Loss on Drying	0.39%
Residual Solvents	1,4-Dioxane : < 10 ppm
E. Coli	Negative/10 g
Microbial Count	< 1000 cfu/g (TPC)
Salmonella	Negative/25 g
Staphylococcus Aureus	Negative/10 g
Particle Size	100% thr' 20 mesh
Residue On Ignition	0.02%
Assay (anhydrous basis)	99.28%
Grade	USP
Storage	Store at RT
Additional Information	Total amines : < 10 ppm Chromatographic purity : Passes test

Prepared by:

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Ramesh Mandadi

Director of Operations

Reviewed and Approved by:

Sujata Moton

Sujata Moton

VP