

Chem-Impex International, Inc.

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825 Dillon Drive

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Certificate of Analysis

Catalogue Number	00453
Lot Number	000021-6054
Product	Choline chloride (2-Hydroxyethyl)trimethylammonium chloride
CAS Number	67-48-1
Molecular Formula	C ₅ H ₁₄ ClNO
Molecular Weight	139.63

Appearance	White crystalline solid
Heavy Metals	< 10 ppm (as Pb)
Trace Metal Analysis	Arsenic (As): < 2 ppm Lead (Pb): < 0.3 ppm
Water Content (Karl Fisher)	0.2%
pH	5.8 (10% in solution)
Yeast and Mold	Negative; < 30 cfu/g
Infrared Spectrum	Conforms to structure
Residual Solvents	Passes test 1,4 Dioxane: < 10 ppm
Coliform Organisms	Negative/10g
E. Coli	Negative/10g
Enterobacteriaceae	Negative/10g
Salmonella	Negative/25g
Staphylococcus Aureus	Negative/10g
Residue On Ignition	0%
Assay (anhydrous basis)	99.4%
Grade	USP
Storage	Store at RT

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Additional Information

Total aerobic count: Negative; < 100 cfu/g
Sulphite reducing clostridia: Negative/1g
Listeria monocytogenes: Negative/25g
Bacillus Cereus Spores: Negative/10g
Cronobacter SPP: Negative/10g
USP identification B: Passes USP ID B
Total Amines: < 10 ppm
Chromatographic impurity: Passes USP test

Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager