

Chem-Impex International, Inc.

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825 Dillon Drive

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Certificate of Analysis

Catalogue Number	01439
Lot Number	003231-20220302
Product	Choline bitartrate 2-(Hydroxyethyl)trimethylammonium bitartrate
CAS Number	87-67-2
Molecular Formula	C ₉ H ₁₉ NO ₇
Molecular Weight	253.26

Appearance	White hygroscopic crystal
Bulk density	0.5 g/mL
Density	0.6 g/mL (Tapped)
Heavy Metals	< 10 ppm
Cation	Arsenic (As) : < 1 ppm Lead (Pb) : < 2 ppm Cadmium (Cd) : < 0.2 ppm Mercury (Hg) : < 0.1 ppm
Water Content (Karl Fisher)	0.08%
pH	3.44
Yeast and Mold	< 100 cfu/g
Residual Solvents	1,4-Dioxane : < 10 ppm
E. Coli	Negative /10g
Microbial Count	< 1000 cfu/g (TPC)
Salmonella	Negative /25 g
Staphylococcus Aureus	Negative /10 g
Particle Size	100% thru 20 mesh 82.86% thru 40 mesh 56.45% thru 60 mesh 31.85% thru 80 mesh 13.71% thru 100 mesh
Residue On Ignition	0.01%
Assay	99.18%
Grade	USP

Certificate of Analysis

Catalog Number: 01439

Lot Number: 003231-20220302

Storage	Store at RT
Additional Information	Identification Test for A and B : Passes test Choline : 40.80% (Titration)
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