



Specification

Choline Dihydrogen Citrate

Catalog Number:	CD1005
CAS Number:	77-91-8
Synonyms:	Salts of (2-Hydroxyethyl)trimethylammonium
Molecular Formula:	$C_5H_{14}NO \cdot C_6H_7O_7$
Molecular Weight:	295.29
Storage:	15°C – 30°C
Retest Period:	Four years from the date of manufacture

Test	Specification
Retest Date	≥ 1 year from test date
Appearance*	White crystalline powder
Assay (Dry Basis)	98.0 – 100.5%
Identification	
A	Positive reaction
B	Positive reaction
Melting Point*	103°C – 107.5°C
Solubility (25% in Water)*	Clear & colorless
pH (25%)*	3.5 – 4.5
Moisture	≤ 0.25%
Residue on Ignition	≤ 0.05%
Heavy Metals	≤ 10ppm
Arsenic	≤ 2ppm
Cadmium	≤ 0.3ppm
Chromium	≤ 2ppm
Lead	≤ 0.3ppm
Mercury	≤ 0.2ppm
1,4-Dioxane	To pass test
Total Plate Count	≤ 1,000cfu/g
Yeast & Mold	≤ 100cfu/g
Total Coliform	≤ 10cfu/g
<i>B. cereus</i> spores	Negative/1g
<i>E. coli</i>	Negative/10g
Enterobacter	Negative/10g
Salmonella	Negative/25g
<i>S. aureus</i>	Negative/10g
Sulfite-reducing clostridia	Negative/1g
Particle Size	100% thru 20mesh

*In-house testing to confirm identity.



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Approved:

Date: December 3, 2014

A handwritten signature in blue ink that reads "John Grubb". The signature is written in a cursive, flowing style.

John Grubb, PhD
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