



Specification

Choline Bitartrate USP/FCC

Catalog Number:	CB1009
CAS Number:	87-67-2
Synonym(s):	2-(Hydroxyethyl)-trimethylammonium Bitartrate
Molecular Formula:	C ₉ H ₁₉ NO ₇
Molecular Weight:	253.26
Storage:	15°C – 30°C
Retest Period:	Two years from the date of manufacture

Test	Specification
Appearance	White crystalline powder
Assay (Titration) ¹	99.0 – 100.5%
Identification	
A FTIR ^{1,2*}	To match reference spectra
B Precipitation ^{1,2}	To meet requirements
C Color Reaction ²	To meet requirements
Specific Rotation (c=4) ^{1,2}	+17.5° to +18.5°
Choline Content	40.90 – 41.72%
pH (10%) ¹	3.0 – 4.0
Moisture (KF) ^{1,2}	≤ 0.5%
Residue on Ignition ^{1,2}	≤ 0.1%
Total Amines ^{1,2}	≤ 0.001%
Heavy Metals (Pb) ¹	≤ 10ppm
Arsenic ¹	≤ 2ppm
Lead ^{1,2}	≤ 0.3ppm
Total Plate Count	≤ 1,000cfu/g
Yeast & Mold	≤ 100cfu/g
Coliforms	≤ 300cfu/g
<i>E. coli</i>	Negative
<i>Salmonella</i>	Negative
This lot meets the specifications for USP30 ¹ and FCCV ² .	

Approved:

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