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Specification Sheet

CHOLINE L-BITARTRATE USP FCC CONDITIONED*

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
CBLASP	1358	87-67-2	February 9, 2012	MPR	No. 10	RVK

CHARACTERISTICS:	<p>A white odorless, hygroscopic crystalline powder having an acetic taste. Soluble in water and slightly soluble in alcohol. Made from natural L-Tartaric Acid. Typical particle size is ~60 mesh.</p> <ul style="list-style-type: none">Choline L-Bitartrate coated (conditioned) with ~1% Silicon Dioxide*Contains ~41% Choline
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SPECIFICATIONS:	Identification	
	A, B	To pass test
	Assay (anhydrous basis prior to conditioning)	99.0-100.5%; 98.5% min with silicon dioxide
	Assay (anhydrous basis after conditioning)	97.5% min
	Specific rotation	Between +17.5° and +18.5°
	pH (1-10 solution)	Between 3.0 and 4.0
	Water	0.5% max
	Water after conditioning	0.05% max
	Residue on ignition (without silicon dioxide)	0.1% max
	1,4 Dioxane	10µg/g max
	Arsenic	2 µg/g max
	Lead	0.3 µg/g max
	Heavy metals	10 µg/g max
	Limit of total amine	10 µg/g max
	Chromatographic purity	To pass test
	Residual solvents	Meets requirements
	Silicon dioxide	Between 0.5 and 1.5%
	Total aerobic count	Less than 1000 cfu/g
	Yeast and molds	Less than 100 cfu/g
	Total coliform	Less than 10 cfu/g
Escherichia coli	Negative/10 g	
Salmonella	Negative/25 g	
Staphylococcus aureus	Negative/10 g	

PACKAGING:	25 kg fiber drums with 2 PE liners; 16 drums per pallet.
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APPLICATIONS:	Nutritional supplements in human foods and animal feeds
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OTHER:	<p>Kosher certified, manufactured by a GMP compliant and ISO certified company. Store in a controlled environment, if possible. Material is hygroscopic. Do not leave drum open.</p> <p>The Food and Drug Administration has authorized a nutrient content claim for Choline. Food and supplements with 55 mg or more of Choline cation per portion can be labeled "a good source of Choline" and those with 110 mg "an excellent source of Choline." A copy of this document <u>Nutrient Content Claims Notification for Choline - Containing Foods</u> by the FDA is available. Please contact your AIC sales representative.</p>
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