



American International Chemical, Inc.

Corporate Offices: (800) 238-0001

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SPECIFICATION SHEET

CALCIUM LACTATE PENTAHYDRATE USP FCC POWDER

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Written By	Rev. No.	Approved By
CLPGIP	2998	5743-47-5	July 21, 2007	SDM	MDS	No. 2	TJK

CHARACTERISTICS:	White to off-white, practically odorless powder. Soluble in water and insoluble in alcohol. Manufactured in a class 100K facility using injection grade water.
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SPECIFICATIONS:	Assay (dry basis)	98.0-101.0%
	Calcium content (as is basis)	13.0%-14.5%
	Identification	
	A	To pass test
	B	To pass test
	Acidity	0.45% max
	Loss on drying	22.0-27.0%
	Volatile fatty acid	To pass test
	Heavy metals	0.002% max
	Magnesium and alkali salts	1.0% max
	Organic volatile impurities	Meets requirements
	Residual Solvents	Meets requirements
	Fluoride	0.0015% max
	Lead	2 mg/ kg max
	Particle size	
	A. Through a #22 mesh	99% min
	B. Through a # 60 mesh	50% min
	Bulk density (loose)	350-750 kg/m ³
	Total aerobic plate count	500 cfu/g max
	Yeast and mold	100 cfu/g max
Escherichia coli	Absent in 10 g	
Salmonella	Absent in 10 g	
Pseudomonas aeruginosa	Absent in 10 g	
Staphylococcus aureus	Absent in 10 g	

PACKAGING:	Standard packaging is 25 kg fiber drums with inner HMHDPE liners, with 18 drums per pallet.
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APPLICATIONS:	Preservative and buffer in foods and beverages; as a source of soluble calcium in any food, beverage, and nutritional supplement applications, especially for those products that require low total aerobic counts, improved solubility; neutral pH and low trace minerals.
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SPECIAL STORAGE INSTRUCTIONS:	Store in well closed container in dry location at ambient room temperature (~ 20°C).
OTHER:	The manufacturing site is WHO cGMP and ISO 9000-2004, ISO 14000-2006 certified. The manufacturer has achieved a COS issued by the EDQM. It is certified by NQA to the requirement of HACCP under the Codex Alimentarius. The product is Kosher and Halal certified. GRAS listed.
SHELF LIFE:	Material should be re-tested against certificate of analysis three years from date of manufacture.