



# 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	Rev. No.	Approved By
CLPGIP	2998	5743-47-5	April 13, 2011	JP	No. 3	CDS

<b>CHARACTERISTICS:</b>	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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<b>SPECIFICATIONS:</b>	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
	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 <sup>3</sup>
	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	

<b>PACKAGING:</b>	Standard packaging is 25 kg fiber drums with inner HMHDPE liners, with 18 drums per pallet.
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<b>APPLICATIONS:</b>	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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<b>SPECIAL STORAGE INSTRUCTIONS:</b>	Store in well closed container in dry location at ambient room temperature (~ 20°C).
<b>OTHER:</b>	The manufacturing site is ISO 9000-2004, ISO 14000-2006, WHO cGMP, HACCP; Kosher, Halal certified and has achieved a COS issued by the EDQM. It is certified by NQA to the requirement of HACCP under the Codex Alimentarius. It is a member of the Global Alliance for Improved Nutrition (GAIN), and supports the UNGC, which encourages businesses worldwide to adopt sustainable and socially responsible policies. Global Calcium's plant is self powered by wind energy generating 100% of their energy needs.
<b>SHELF LIFE:</b>	Material should be re-tested against certificate of analysis three years from date of manufacture.