

GALAXIUM PEARLS EXCEL

CLPRL5H / galactic ref.

CALCIUM LACTATE PENTAHYDRATE / product name

DESCRIPTION

Galaxium Pearls Excel is the calcium salt of natural L(+) lactic acid produced by fermentation. Galaxium Pearls Excel has a very high purity which improves the solubility in various food applications while decreasing interactions such as oxidation and separation.

Its innovative shape allows high performance in terms of solubility, dissolution rate, floability and floodability. Galaxium Pearls Excel is formulated to exceed the highest quality standards of the food industry.

Chemical name		Calcium 2-Hydroxypropanoate pentahydrate
Molecular weight	g/mol	308
Molecular formula		C ₆ H ₂₀ O ₁₁ Ca
Particle size	μm	99% between 100 - 710 μm
Solubility in water (@ 25°C/77°F)	g/100 mL	9
Solubility in water (1g/30 mL)	-	Passes test
Dissolution rate	1000 mg/250 mL	38 sec
Hydrate form		Penta
Form		Free flowing and non dusting powder
pH (5g product + 95g water)	-	6.0 - 8.0
Loss on drying	% w/w	22 - 27
SENSORY CHARACTERISTICS		
Color	-	White
Odor	-	Neutral
Taste	-	Neutral
PURITY		
Appearance of solution	-	Passes test
Positive test of calcium	-	Passes test
Positive test of lactate	-	Passes test
Calcium lactate content (as anhydrous)	% w/ w	98 - 101
Calcium content (as anhydrous)	%w/w	16 5 - 20 1

Positive test of tactate	-	rasses test
Calcium lactate content (as anhydrous)	% w/w	98 - 101
Calcium content (as anhydrous)	% w/w	16.5 - 20.1
Calcium content	% w/w	13.1 - 14.5
Heavy metals (as Pb)	ppm	Max. 5
Iron	ppm	Max. 25

Chloride	ppm	Max. 80	
Sulphate	ppm	Max. 400	
Phosphate	ppm	Max. 150	
Lead	ppm	Max. 2	
Arsenic	ppm	Max. 1	
Mercury	ppm	Max. 1	
Fluoride	ppm	Max. 15	
Reducing substances (sugars)	-	Passes test	
Volatile fatty acids	-	Passes test	
Acidity - alkalinity	-	Passes test (acidity)	
Magnesium and alkali salts	% w/w	Max. 1	
Mesophilic bacteria	counts/g	Max. 1000	
Moulds	counts/g	Max. 100	

REGISTRATION

Yeasts

REGISTRATION	
Labeling	E 327
CAS number	28305-25-1
GRAS status	Yes
Complies with	Eur Reg 231/2012
Latest edition	FCC - JSFA* - JECFA* - Kosher - Halal

Max. 50

counts/g

PACKAGING

See packaging list

STORAGE CONDITIONS

Dry, well ventilated room

SHELF-LIFE

48 months

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