

## PURACAL<sup>®</sup> PP/FCC

### Description

PURACAL is the highly soluble calcium salt of natural L(+)-lactic acid, which is produced by fermentation. It is a white, non-hygroscopic product. PURACAL PP/FCC is the high quality food grade calcium lactate penta hydrate powder.

### Specification

Product	calcium lactate
Hydrate form	penta
Form	agglomerated powder

### Visual/sensoric characteristics

Color fresh (powder)	white
Odor and taste	neutral
Clarity and color of solution	passes test

### Identification

Assay (w/w)*	98.0-101.0%
Assay calcium (w/w)	13.4-14.5%
Loss on drying (w/w)	22.0-27.0%

\* on dry substance (d.s.)

### Purity

pH (5g product+95g water)	6.0 -8.0
Volatile fatty acids	passes test
Reducing substances	passes test
Heavy metals total	max. 10 ppm
Iron	max. 40 ppm
Mercury	max. 1 ppm
Lead	max. 0.4 ppm
Fluoride	max. 15 ppm
Arsenic	max. 1 ppm
Chloride	max. 80 ppm
Sulphate	max. 400 ppm
Phosphate	max. 150 ppm
Magnesium and alkalisalts	max. 1.0%
Acidity (as lactic acid)	passes test
Mesophilic bacteria	max. 1000 counts/g
Molds	max. 100 counts/g
Yeasts	max. 100 counts/g

### Physical-chemical properties

Molecular formula (anhydrous)	$(\text{CH}_3\text{CHOHCOO})_2\text{Ca}$
Molecular weight	218 (anhydrous)
Chemical name	Calcium-L-2-hydroxy-Propionate
Sieve analysis	min. 98%; $\leq 500 \mu\text{m}$

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## Product data

Rev.No.6/2201

### Typical values

Dust*	max. 70 mg/100g
Dissolution rate (1000mg/240ml)	40 sec.
Solubility in water	9 g/100 ml at 25°C
Solubility in water (1g/30ml)	passes test
Solubility in ethanol (95%)	passes test
Identification on calcium	passes test
Identification on lactate	passes test

All methods available upon request.

\* Heubach method

### Registration

CAS number	28305-25-1 (general 814-80-2)
EEC Additive number	E 327
USA	GRAS
Complies with	FCC, EUSFA, JSFA, JECFA

### Packaging

PURACAL PP/FCC is supplied in 25 kg (55 lbs) multilayer paper bags and in 20 kg (44.1 lbs) cartons.

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