

Product Data

Rev.No.18/2201

Print date 03-Oct-2016

PURACAL® PP/FCC

Description PURACAL is the highly soluble calcium salt of natural 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.

Product calcium lactate

Specification Hydrate form penta

Form agglomerated powder

Visual sensory Color fresh (powder) white

characteristics Odor neutral

Clarity of solution (Appearance of the solution) passes test
Color of solution passes test
Dirt (visual, reference) max. 6 particles

Taste neutral

Identification Assay $98.0-101.0\% (w/w)^{11}$

Assay calcium 13.4-14.5 % (w/w)

Stereochemical purity (L-isomer) min. 96 %

Loss on drying 22.0-27.0 % (w/w) Identification calcium passes test

Identification lactatepasses testSolubility in water (1 g/30 ml)passes testSolubility in ethanol (95%)passes test

Purity pH (5 g product + 95 g water) 6.0-8.0

Alkalinity passes test

Volatile fatty acids passes test
Reducing substances passes test
Heavy metals (Pb) max. 10 ppm

max. 40 ppm Iron Mercury max. 1 ppm Lead max. 0.4 ppm Fluoride max. 15 ppm Arsenic (as As) max. 1 ppm Barium passes test Chlorides max. 80 ppm Sulfate max. 400 ppm **Phosphates** max. 150 ppm

Bromide max. 20 ppm
Magnesium and alkali salts max. 1 % (w/w)

Acidity, as lactic acid max. 0.37 % (w/w) (passes test)

Coliforms absent in 1g
TAMC max. 1000 counts/g
TYMC max. 50 counts/g

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Physical-chemical-

properties

Molecular formula

Molecular weight Chemical name

Sieve analysis max. 500 μm

Regulatory / Registration

CAS number

EEC Additive number

INS

GRAS status Complies with

1) on dry substance (d.s.)

(CH₃CHOHCOO)₂Ca 218 (anhydrous)

Calcium-L-2-hydroxy-Propionate

min. 98.0 %

28305-25-1 (general 814-80-2)

E327 Calcium lactate 327 Calcium lactate 21CFR184.1207

FCC, JSFA, JECFA, 231/2012/EC

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