

# GALAXIUM PEARLS PHARMA

CLPPL5H / *galactic ref.*

CALCIUM LACTATE PENTAHYDRATE / *product name*

## DESCRIPTION

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

Its innovative shape allows high performance in terms of solubility, dissolution rate, floability and floodability.

Galaxium Pearls Pharma is formulated to exceed the highest quality standards of the pharmaceutical and cosmetic industries.

## PHYSICO-CHEMICAL PROPERTIES

Chemical name		Calcium 2-Hydroxypropanoate pentahydrate
Molecular weight	<i>g/mol</i>	308
Molecular formula		C <sub>6</sub> H <sub>20</sub> O <sub>11</sub> Ca
Particle size	<i>µm</i>	99% between 100 - 710 µm
Solubility in water (@ 25°C/77°F)	<i>g/100 mL</i>	9
Solubility in water (1g/30 mL)	-	Passes test
Dissolution rate	<i>1000 mg/250 mL</i>	38 sec
Hydrate form		Penta
Form		Free flowing and non dusting pearls
pH (5g product + 95g water)	-	6.0 - 8.0
Loss on drying	<i>% w/w</i>	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)	<i>% w/w</i>	98 - 101
Calcium content (as anhydrous)	<i>% w/w</i>	16.5 - 20.1
Calcium content	<i>% w/w</i>	13.1 - 14.5
Heavy metals (as Pb)	<i>ppm</i>	Max. 5
Iron	<i>ppm</i>	Max. 25
Chloride	<i>ppm</i>	Max. 40
Sulphate	<i>ppm</i>	Max. 400
Phosphate	<i>ppm</i>	Max. 50
Lead	<i>ppm</i>	Max. 2
Arsenic	<i>ppm</i>	Max. 1
Barium	-	Passes test
Mercury	<i>ppm</i>	Max. 1
Fluoride	<i>ppm</i>	Max. 15
Reducing substances (sugars)	-	Passes test
Organic volatile impurities	-	Excluded by manufacturing process
Volatile fatty acids	-	Passes test
Acidity - alkalinity	-	Passes test
Magnesium and alkali salts	<i>% w/w</i>	Max. 1
Mesophilic bacteria	<i>counts/g</i>	Max. 100
Moulds	<i>counts/g</i>	Max. 10
Yeasts	<i>counts/g</i>	Max. 10

## REGISTRATION

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

## PACKAGING

See packaging list

## STORAGE CONDITIONS

Dry, well ventilated room

## SHELF-LIFE

48 months

