

# PRODUCT DATA

## L-Calcium Lactate (HPG)

### Description

L-Calcium lactate (HPG) is highly calcium salt of natural L (+) lactic acid, which is produced by fermentation. It is white to cream-colored, almost odorless crystalline powder or granules. It is easily soluble in hot water and insoluble in alcohol, ether, and chloroforms.

### Information

Chemical name	Calcium-L(S)-2-hydroxypropionate
Molecular formula	$\text{Ca}[\text{CH}_3\text{CH}(\text{OH})\text{COO}]_2 \cdot 5\text{H}_2\text{O}$
Molecular weight	218.22 (anhydrous)
CAS	28305-25-1
Packing	Net 20kg per PE bag

### Specification (Complies with: FCC, FAO/WHO, JSFA, GB)

Identification	It responds to the test for calcium and lactate
Stereochemical purity, %, L/(L+D)×100	≥98.0
Assay (on the dried basis), w/%	98.0~101.0
Loss on drying, w/%	22.0~27.0
Solution (1→20)	Passes test
Acidity and alkalinity	Passes test
Volatile fatty acid	Passes test
Magnesium and alkali salts, w/%	≤1.0
Chloride (as Cl), w/%	≤0.004
Sulphates (as SO <sub>4</sub> ), w/%	≤0.02
Iron (Fe), w/%	≤0.0025
Arsenic (As), mg/kg	≤2
Lead (Pb), mg/kg	≤0.3
Barium (Ba)	Passes test
Fluoride (as F), w/%	≤0.0015
Heavy metals (as Pb), mg/kg	≤10
pH (1→20)	6.0~8.0
Calcium assay, w/%	13.1~14.5
Granularity, %	≥ 90%; 75~425μm ≥ 98%; ≤500μm
Organic volatile impurities	Passes test