



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: USP, BP,EP,JP,CP)

Identification	It responds to the test for calcium and lactate	
Solution (1→20)	Clear	
pH (1→20)	6.0~8.0	
Acidity and alkali	Passes test BP/EP/JP	
Heavy metals (as Pb), %	≤0.001	
Arsenic (as As), %	≤0.0002	
Barium, %	Passes test EP	
Lead, %	≤0.00003	
Fluoride, %	≤0.0015	
Iron, %	≤0.0025	
Chloride, %	≤0.004	
Sulphate, %	≤0.02	
Magnesium and alkali, %	≤1.0	
Volatile fatty acid	Passes test USP	
Organic volatile impurities	Passes test USP	
Loss on drying, %	22.0~27.0	
Calcium lactate Assay (anhydrous), %	98.0~101.0	
Calcium Assay, %	13.1~14.5	
Stereochemical purity, %	≥96.0	
Granularity (powder product), %	≤150μm	≥95
Granularity (granular product), %	75~425μm	≥90
	≤500μm	≥98