

5014 – CALCIUM LACTATE POWDER (PENTA) (FOOD GRADE)

REF NO: TBL/QA/SS/F/5014	STANDARD SPECIFICATION FOR CALCIUM LACTATE POWDER (PENTA) (FOOD GRADE)	Rev. No: 03
Issue No: 04		Review Date: 06/02/2025
Issue Date: 07/02/2022		Product code: 5014

PRODUCT PROPERTIES

C.A.S Number	814-80-2
Chemical Formula	$C_6H_{10}CaO_6 \cdot 5H_2O$
Formula weight	308.22
Functional Uses	Calcium Lactate Powder (Penta) is used as a buffer, dough conditioner, yeast food and preservative in food and beverages.
Standard Packaging	25 kg.

PHYSICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Appearance	White to cream colored, almost odorless, crystalline powder or granules. The pentahydrate is somewhat efflorescent.
Solubility	Soluble in water, practically insoluble in ethanol
Test for lactate	Passes test
Test for calcium	Passes test

CHEMICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
pH (1 in 20 soln)	6.0 - 8.0
Loss on drying (120°C, 4 h)	NMT – 30.0%
Acidity	Passes test
Magnesium and alkali salts	NMT – 1% mg/kg
Fluoride	NMT – 30 mg/kg
Lead	NMT – 2 mg/kg
Assay (on dried basis)	NLT – 98.0%

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

