Calcium Lactate

$C_6H_{10}CaO_6 \cdot 5H_2O$ · CAS 5743-47-5 · Calcium lactate pentahydrate, powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Calcium lactate pentahydrate, powder	$C_6H_{10}CaO_6 \cdot 5H_2O$	5743-47-5	98.0–101.0%
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Complexometric titration and HPLC	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Calcium lactate pentahydrate specified at 98.0–101.0% with 13.0–14.0% elemental calcium; the hydrate state changes the calcium figure, the fill weight and the label.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (titration)	98.0–101.0%	As stated
Calcium (titration)	13.0–14.0%	As stated
Appearance	White crystalline powder	As stated
Identification	IR and titration conform	As stated
Water (Karl Fischer)	22.0–27.0%	As stated
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Particle size	≥95% through 40 mesh	As stated
Marker set	Calcium lactate pentahydrate 98.0–101.0%; Ca 13.0–14.0%	Identity
Solubility	Soluble in water; the solution is neutral to slightly alkaline.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes

AVAILABLE FORMS

- Powder, 40 mesh
- Granulated on request

PACKING

- 1 kg foil pouch

STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling.

- 25 kg fiber drum

The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

Catalog document. This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.

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