Calcium Citrate

$C_{12}H_{10}Ca_3O_{14}\cdot 4H_2O$ · CAS 813-94-5 · Calcium citrate tetrahydrate, powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Calcium citrate tetrahydrate, powder	$C_{12}H_{10}Ca_3O_{14}\cdot 4H_2O$	813-94-5	21.0–22.0% (complexometric EDTA)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Complexometric EDTA titration	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Calcium citrate tetrahydrate specified at 21.0–22.0% elemental calcium, for capsules and tablets where the hydrate state and the citrate identity have to be declared.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Calcium (Ca)	21.0–22.0% (complexometric EDTA)	As stated
Assay (calcium citrate, dried basis)	≥97.5%	As stated
Appearance	White, odourless powder	As stated
Identification	Citrate reaction and IR conform	As stated
Loss on drying	≤13.0%	As stated
Particle size	≥95% through 80 mesh	As stated
Bulk density	0.60–0.95 g/mL	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
Marker set	Calcium (21.0–22.0%, tetrahydrate)	Identity
Solubility	Sparingly soluble in water; soluble in dilute hydrochloric acid.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes
- Gummies and chews

AVAILABLE FORMS

- Tetrahydrate powder, 80 mesh
- Granulated on request
- Milled to 100 mesh on request

PACKING

- 1 kg foil pouch
- 25 kg fiber drum

STORAGE

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