Vitamin B5

$C_{18}H_{32}CaN_2O_{10}$ · CAS 137-08-6 · Calcium D-pantothenate, powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Calcium D-pantothenate, powder	$C_{18}H_{32}CaN_2O_{10}$	137-08-6	98.0–101.0% (HPLC)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC and complexometric titration	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Vitamin B5 as calcium D-pantothenate, specified at 98.0–101.0% on the dried basis with 8.0–8.6% calcium; the salt, the rotation and the calcium figure are part of the specification.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Assay (dried basis)	98.0–101.0% (HPLC)	As stated
Calcium (titration)	8.0–8.6%	As stated
Appearance	White powder	As stated
Identification	IR and HPLC conform	As stated
Specific rotation	+25.0° to +28.5° (dry basis)	As stated
Loss on drying	≤5.0%	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 pantothenate 98.0–101.0%; Ca 8.0–8.6%	Identity
Solubility	Freely soluble in water; the solution is neutral.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder sticks and drink mixes

AVAILABLE FORMS

- Powder, 40 mesh
- Granulated on request

PACKING

STORAGE

- 1 kg foil pouch
- 25 kg fiber drum

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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