Vitamin D3

$C_{27}H_{44}O$ · CAS 67-97-0 · Cholecalciferol 100,000 IU/g spray-dried powder on carrier

INDICATIVE SPECIFICATION — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Cholecalciferol 100,000 IU/g spray-dried powder on carrier	$C_{27}H_{44}O$	67-97-0	≥100,000 IU/g (HPLC)
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
HPLC	1 kg	1–7 days	1 kg foil pouch

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Vitamin D3	≥100,000 IU/g (HPLC)	Analytical
Appearance	White to cream, water-dispersible powder	Specification
Identification	HPLC retention time conforms	Analytical
Loss on drying	≤5.0%	Specification
Carrier	Starch, gum arabic or maltodextrin, declared	Specification
Particle size	≥95% through 40 mesh	Sieve
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	Specification
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	Specification
Marker set	Vitamin D3 (≥100,000 IU/g; 2.5 mg/g)	Identity / ratio
Appearance	White to cream, free-flowing water-dispersible powder	Visual
Solubility	Dispersible in water; the vitamin is fat-soluble and is carried on a water-dispersible matrix.	Matrix dependent
Standard packaging	1 kg foil pouch · 25 kg fiber drum	Food-grade liner

APPLICATIONS

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

AVAILABLE FORMS

- 100,000 IU/g powder
- 400,000 IU/g on request
- Oil on request

WHAT TO CONFIRM BEFORE ORDERING

- Convert IU and micrograms before comparing quotes: 40 IU equals 1 µg of cholecalciferol.
- Name the carrier and the assay basis. A 100,000 IU/g powder is a formulation, not pure cholecalciferol.
- Ask for the overage policy and the stability data in the carrier you will use.
- Vitamin D3 is sensitive to light, heat and oxygen; the pack and the process temperature belong in the specification.

> **Indicative document.** This sheet describes the grade we can quote; it is not a batch COA and does not confirm a result for a specific lot. Final specification, contaminant limits and documentation are agreed in writing before the order. The form, hydrate state, ligand ratio and method are release parameters, not marketing descriptions.

DOCUMENTATION RELEASED WITH EACH LOT

DOCUMENT	CONTENT	SCOPE
Certificate of analysis	Assay, identity, physical parameters, contaminant panel and the release decision for the lot.	Batch-specific
Technical data sheet	Form, hydrate state, CAS, specification ranges, solubility, bulk density, storage and packing.	Product-level
Safety data sheet	Sixteen sections covering hazards, handling, storage, transport and emergency response.	Grade-specific
Allergen and GMO statements	Major allergens, gluten, animal-derived inputs and GMO status.	Batch-specific
Origin and traceability record	Manufacturing site and the link between the lot and the retained sample.	Batch-specific
Residual-solvent statement	The crystallisation system and the solvent class, where applicable.	Batch-specific

HOW TO REQUEST THIS GRADE

01 · BRIEF

Send the target specification, quantity, dosage form and destination market.

02 · COUNTER-SPEC

We confirm what can be matched and the documents available for the grade.

03 · SAMPLE & QUOTE

A sample with its own COA, followed by packing, lead time and terms in writing.

No claim is made here. This sheet does not claim a therapeutic effect, a product certification or a regulatory approval. Health claims belong to the brand that makes them and to the market that authorises them.

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