

SPECIFICATION **Vitamin D3 100.000 I.U./g SD CWS/A** **(without anticaking agent) Food Grade (USP/EP)**

Production unit **Xinchang NHU Vitamins**

Description

Ingredients

The product consists of Vitamin D3 (Ph. Eur./USP), gum arabic, maltodextrin, sucrose, octyl and decyl glycerate, dl- α -tocopherol as antioxidant

Synonym

Cholecalciferol, Colecalciferol

Formula

$C_{27}H_{44}O$

Product code

SP03-13

CAS No

67-97-0

Properties

Shelf life

24 months after production date, in unopened original packaging

Aspect

white or off-white free flowing powder

Assay

min. 100.000 I.U./g

EP: 90 – 115 % of active substance

USP: 90 – 110 % in basis

Loss on drying

max. 6,0 %

Solubility

Dispersible in cool water, forming a milky emulsion

Sieve analysis

100 % through sieve no. 40 (US)

≥ 90 % through sieve no. 60 (US)

≥ 45 % through sieve no. 100 (US)

Identification

EP:

A. Record the UV spectrum of the principal peak in the chromatogram obtained with the test solution (a) in the assay, with a diode array detector in the range of 210 – 400 nm.

B. Examine the chromatograms obtained in the assay

USP:

A. Infrared spectroscopy

B. Ultraviolet-visible spectroscopy

C. The retention time of the major peak of the sample solution corresponds to that of the standard solution, as obtained in the assay.

Heavy metals	max. 10 mg/kg
Arsenic (As)	max. 1 mg/kg
Lead (Pb)	max. 0,5 mg/kg
Mercury (Hg)	max. 0,1 mg/kg
Cadmium (Cd)	max. 0,5 mg/kg

Microbiological specs

Total plate count	≤ 1000 CFU/g
Mould and Yeast	≤ 100 CFU/g
Salmonella	negative (in 25 g)
Coliforms	< 0,3 MPN/g

Handling

Stability	Material is sensitive to moisture, oxygen, heat and light Once opened, use contents quickly
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Storage

Store in a cool and dry place
Recommended storage temperature: below 25°C

Usage

for food industry

Classified as **hazardous substance** as per EU regulation.

NHU EUROPE GmbH