

## SPECIFICATION

### Vitamin D3 100.000 I.U./g SD CWS/S Food Grade (USP/EP)

**Production unit**

**Xinchang NHU Vitamins**

**Description**

The product consists of Vitamin D3 (Ph. Eur./USP), maltodextrin, modified starch, sucrose, vegetable oil, sodium ascorbate and dl-a-tocopherol as antioxidants, silicon dioxide as anti-caking agent

Synonym

Cholecalciferol, Colecalciferol

Formula

$C_{27}H_{44}O$

Product code

SP03-03

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. 40 (US)

≤ 45 % through sieve no. 100 (US)

Identification

EP: First identification: A, C

Second identification: A, B

A: Thin-Layer chromatography

B: Ultraviolet and visible absorption spectrophotometry.

C: Examine the chromatograms obtained in the assay.

USP: A. Infrared absorption

B. Ultraviolet absorption

C. a bright red colour is produced, and it rapidly changes through violet and blue to green.

D. Thin-Layer chromatography

Heavy metals

Max. 10 mg/Kg

Arsenic (As)

Max. 1 mg/Kg

Lead (Pb)

Max. 0,5 mg/Kg

Traces of BHT

max. 0,1 %

### Microbiological specs

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

### Handling

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

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