

## SPECIFICATION

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

**Production unit**

Xinchang NHU Vitamins

**Description**

**Ingredients**

The product consists of Vitamin D3, maltodextrin, gum Arabic, sucrose, octyl and decyl glycerate, 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**

SP03-02

**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

**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

**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

**Transport instructions**

See our latest safety data sheet

**Usage**

for food industry

**NHU EUROPE GmbH**