

## SPECIFICATION

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

**Production unit**

Xinchang NHU Vitamins

#### Description

Ingredients

The product consists of Vitamin D3 (Ph.Eur./USP), gum Arabic, sucrose, corn starch, octyl and decyl glycerate, sodium ascorbate and tocopherol as antioxidant, silicon dioxide as anti-caking agent

Synonym

Cholecalciferol, Colecalciferol

Formula

$C_{27}H_{44}O$

Product code

SP03-04

CAS No

67-97-0

#### Properties

Shelf life

24 months after production ate in unopened original packaging

Aspect

white or off-white free flowing microcapsule

Assay

Min. 100.000 I.U./g

Loss on drying

Max. 5,0 %

Solubility

Dispersible in cool water forming a milky emulsion

Sieve analysis

100 % through sieve no. 20 (US)  
≥ 90 % through sieve no. 40 (US)  
≤ 15 % 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

Arsenic (As)

max. 10 mg/Kg

Lead (Pb)

max. 1,5 mg/Kg

Cadmium

max. 0,5 mg/Kg

Mercury (total)

max. 0,5 mg/kg

Methylmercury (as Hg)

max 1,5 mg/kg

max 0,2 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**

Usage for food industry

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

Transport instructions please see our latest MSDS

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

**NHU EUROPE GmbH**