



NHU EUROPE GmbH, Daimlerstrasse 14-16, D-21357 Bardowick

TO WHOM IT MAY CONCERN

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## SPECIFICATION

### Vitamin D3 100.000 I.U./g CWS/S Food Grade (USP41/EP9)

#### Ingredients

Synonym

Cholecalciferol, Colecalciferol

Formula

$C_{27}H_{44}O$

Product code

SP03-05

CAS No

67-97-0

#### Properties

Shelf life

24 months after production date, in unopened original packaging

Aspect

white or off-white free flowing microcapsule  
The product consists of Vitamin D3 (Ph.Eur./USP), modified starch, maltodextrin, cornstarch, sucrose, vegetable oil, dl-alpha-tocopherol and sodium ascorbate as antioxidants, silicon dioxide as anti-caking agent

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	Max. 10 mg/Kg
Arsenic (As)	Max. 1 mg/Kg
Lead (Pb)	Max. 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)
<b>Handling</b>	
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
MSDS	Yes
classified as hazardous as per EU regulation	No

**NHU EUROPE GmbH**