



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 SD CWS/S Food Grade (USP41/EP9)

#### Ingredients

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  
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

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. 2 mg/Kg
<b>Microbiological specs</b>	
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
<b>Storage</b>	
	Store in a cool and dry place Recommended storage temperature: below 25°C
<b>Transport instructions</b>	
	See our latest safety data sheet
<b>MSDS</b>	
	Yes
classified as hazardous as per EU regulation	
	No

**NHU EUROPE GmbH**