

VITAMIN D3 CRYSTALLINE



Coversheet for Certificate of Analysis

Productcode : 5009278
Lot No. : UE02102013
Analysis No. : 04585959

CfC Number : 04764929
Articlecode : 5009278258
Sales Name : 0,250 KG TIN VITAMIN D3 CRYSTALLINE
Manufacturing Date : 24-FEB-2021
Best Use Before Date : 23-FEB-2026
Delivery Note No. 1922155426
Destination : Italy
Customer Ref. No : 1640,1641,1642,1643,1644
Customer Article No: 002035-250,PO1640
Customer Name: ACEF S P A
VIA UMBRIA
FIORENZUOLA D'ARDA

Article desc. CoA
Comment

VITAMIN D3 Crystalline

CERTIFICATE OF ANALYSIS

Productcode : 5009278
Lot No. : UE02102013
Analysis No. : 04585959

Test	Result	Limits / Specification	Dimension / Units
Appearance			
Appearance	crystalline powder	crystalline powder	
Visual inspection			
Visual Colour			
Colour	white or almost white	white or almost white	
Visual inspection			
Identity			
Identity	corresponds	corresponds	
IR / Ph. Eur.			
Specific optical rotation, 589 nm			
20°C, C=0.8 in ethanol	108	105 to 112	°
Ph. Eur.			
UV-Absorption in Ethanol			
A 1PC, 1cm at 265 nm	472	460 to 500	
Ph. Eur.			
Loss on drying			
Loss on drying	0.0	max. 0.1	%
Residual solvents			
n-hexane	1	max. 290	ppm
GC / Ph. Eur.			
methyl formate	<3	max. 1000	ppm
GC / Ph. Eur.			
acetone	2	max. 1000	ppm
GC / Ph. Eur.			
methanol	13	max. 3000	ppm
GC / Ph. Eur.			
pyridine	<14	max. 200	ppm
GC / Ph. Eur.			
Related substances			
Trans-vitamin D3 (impurity A)	<= 0.05	max. 0.1	%
HPLC / Ph.Eur.			
7,8-Didehydrocholesterol (impurity B)	<= 0.05	max. 0.10	%

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Test	Result	Limits / Specification	Dimension / Units
HPLC / Ph.Eur. Unspecified impurities (each)	<= 0.05	max. 0.10	%
HPLC / Ph.Eur. Total impurities	0.0	max. 1.0	%
Assay			
Vitamin D3 HPLC / Ph. Eur.	101.4	97.0 to 102.0	%

This lot was analysed and released by our authorized Quality Control Department and was found to meet the specifications as given above.

The product meets all requirements of the following valid compendia when tested accordingly:

Ph. Eur., USP, FCC

DSM Nutritional Products France SAS

The Quality Assurance Manager



Molina Angeles