

DRY VITAMIN D3 100 SD/S

CERTIFICATE OF ANALYSIS

Productcode : 5010950
 Lot No. : UT16010013
 Analysis No. : 03B30258

Test	Result	Limits / Specifications	Dimension / Units
Appearance visual	free flowing particles	free flowing particles	
Colour visual	yellowish	off-white yellowish	
Fineness (US Standard sieve): - through sieve No. 80 / USP jet sieving	100	min. 95	%
Dispersibility in water Dispersibility in water at 20°C	passes test	passes test	
Loss on drying Halogen moisture Analysis	4	max. 6	%
Identity for Vitamin D3 TLC	corresponds	corresponds	
Identity for Tocopherol TLC	corresponds	corresponds	
Identity for Sodium Ascorbate HPLC	corresponds	corresponds	
Assay Vitamin D3 HPLC	107273	100000 to 110000	I.U./g
Microbiological purity			
Total aerobic microbial count Ph.Eur.	<10 ³	<10 ³ 10 ³	CFU/g
Total combined yeast/moulds count Ph.Eur.	<10 ²	<10 ² 10 ²	CFU/g
Enterobacteria Ph.Eur.	<10	<10	CFU/g
Escherichia coli Ph.Eur.	negative in 10g	negative in 10g	
Salmonella spp. Ph.Eur.	negative in 25g	negative in 25g	
Staphylococcus aureus Ph.Eur.	negative in 10g	negative in 10g	
Pseudomonas aeruginosa Ph.Eur.	negative in 10g	negative in 10g	

β-Carotene[®] 10% CWS/S

CERTIFICATE OF ANALYSIS

Product code : 50 1576 7

Lot-no.: EW17021004 Manufacturing date: 03 February 2017

Analysis-no.: 76000815 Best use before: 03 February 2020

Date of issue: 28 February 2017

Test	Result	Limits Specifications	Dimensions Units
Appearance	fine granular powder	fine granular powder	
• Visual estimation			
Colour	reddish	reddish	
• Visual estimation			
Identity	454	maximum at 453- 456 nm	
• Spectrophotometry in cyclohexane			
Powder fineness			
• through sieve no. 20	100	100	%
• through sieve no. 40	98	min. 85	%
• through sieve no. 100	14	max. 15	%
Riddle sieve screening			
Loss on drying	3.5	max. 8	%
• IR drying			
Dispersibility in water	dispersible	dispersible	
• Dispersibility in water at 20°C			
Colour intensity of aqueous solution	121	min. 110	
• Photometer: A(1%, 1cm) at maximum			
β-Carotene content	11.3	min. 10	%
• (HPLC) USP			
Microbiological purity			
• Total aerobic microbial count	<10	max. 10 ³	CFU/g
Ph.Eur.			
• Total combined yeasts/moulds count	<10	max. 10 ²	CFU/g
Ph.Eur.			
• Enterobacteria	<10	< 10	CFU/g
Ph.Eur.			
• Escherichia Coli	negative in 10g	negative in 10g	
Ph.Eur.			
• Salmonella spp.	negative in 25g	negative in 25g	
Ph.Eur.			
• Staphylococcus aureus	negative in 10g	negative in 10g	
Ph.Eur.			
• Pseudomonas aeruginosa	negative in 10g	negative in 10g	
Ph.Eur.			

This lot was analyzed and release by our authorized Quality Assurance Department and was found to meet the specifications as given above.

This document is valid without signature

DSM Nutritional Products
Quality Assurance

DRY VITAMIN D3 100 SD/S

CERTIFICATE OF ANALYSIS

Productcode : 5010950
Lot No. : UT16010013
Analysis No. : 03B30258

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:
USP, FCC and Ph.Eur.

DSM Nutritional Products Ltd
The Quality Assurance Manager



BARTH GABRIELE

Dry Vitamin D3 100 SD/S

GMO Statement

We hereby confirm that the active substance used for Dry Vitamin D3 100 SD/S is manufactured by conventional processes** and does not contain GMO-DNA.

With regard to the ingredients used in the application form of the active substance we hereby confirm that they are manufactured by conventional processes** and are not produced from GMOs. They do not contain GMO-DNA.

** The term "conventional process" refers to chemical synthesis, fermentation using non GMM, extraction from conventional plants.

This document is generated electronically and valid without signature.

Disclaimer: The information contained herein is to the best of our knowledge accurate. However, we refuse any liability for the application and use of further processed material containing our product. Solely the producer of the final product has to assume full responsibility according to the relevant local regulations. The content of this document is subject to change without further notice unless otherwise agreed in writing. Please consult your local representative or one of DSM's websites at <http://webshop.dsm.com> for latest version of this document or the latest information.



HFCE

Halal Food Council of Europe المجلس الأوروبي للأغذية الحلال

4 Rue de la Presse, 1000 Brussels, Belgium | Tel: +32-2227-1114, +32-2227-2728 | Fax: +32-2218-3141 | www.HFCE.eu

Registration No: 827964482

HALAL CERTIFICATE شهادة حلال

المجلس الأوروبي للأغذية الحلال يشهد بأن المنتجات المذكورة أدناه قد إستوفت شروط الحلال وفقاً للشريعة الإسلامية

The Halal Food Council of Europe hereby certifies that the products listed below have met the Halal requirements in accordance with Islamic laws.

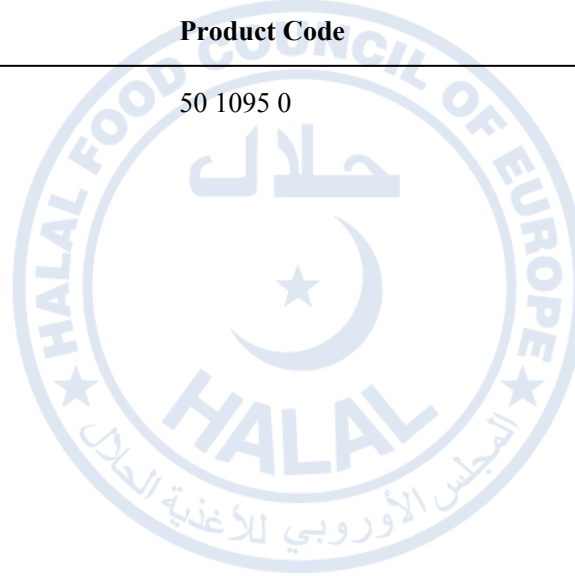
Date: November 16, 2016

Document #: 5256.5257.IH160711

Company Name & Address: **DSM Nutritional Products, Ltd.** PO Box 2676 Postfach, Basel City CH 40020 Switzerland

Plant Name & Address: **DSM Nutritional Products** Hauptstrasse 4 Sisseln, Aargau CH 4334 Switzerland

Product Name	Product Code	Halal-ID	Product Certificate #
Dry Vitamin D3 100 SD/S	50 1095 0	B79113	HC-16DSYJ16




Iqbal Ahmed Qureshi
Director & Halal Administrator



This certificate is valid until **November 30, 2018** and subject to renewal at that time.



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D160129302HCP1E

Thu Jul 27 15:30:03 AST 2017

Product Information



B-Carotene 10 % CWS/S

GMO Statement

We hereby confirm that the active substance is manufactured by conventional processes¹ and does not contain GM organisms. It does not fall under the scope of Regulation (EC) 1829/2003² or under the scope of Regulation (EC) 1830/2003².

The active substance in the above-named product does not require labelling as a GMO as defined in the regulations mentioned above, either as a food or feed ingredient in its own right or when incorporated into intermediate or final products.

With regard to the formulation ingredients used in the application form of this product, we hereby confirm that they are manufactured using conventional processes¹ and that they are not produced from GMOs. The ingredients do not contain GMOs. They do not fall under the scope of Regulations (EC) 1829/2003² and 1830/2003².

Traceability is established for all ingredients for which genetically modified counterparts exist.

¹ The term "conventional process" refers to chemical synthesis, fermentation using non GMM, extraction from conventional plants.

² The following legislation, including its subsequent amendments, is important in the control of the use of Genetically Modified Organisms in food and feed:

Regulation (EC) 1829/2003 on Genetically Modified Food and Feed.

Regulation (EC) 1830/2003 concerning the traceability and labelling of GMOs and the traceability of food and feed products produced from GMOs.

Directive 2001/18/EC on the deliberate release into the environment of genetically modified organisms and repealing Council

Directive 90/220/EEC.

Directive 2009/41/EC on the contained use of genetically modified micro-organisms.

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Disclaimer: The information contained herein is to the best of our knowledge accurate. However, we refuse any liability for the application and use of further processed material containing our product. Solely the producer of the final product has to assume full responsibility according to the relevant local regulations. The content of this document is subject to change without further notice unless otherwise agreed in writing. Please consult your local representative or one of DSM's websites at <https://webshop.dsm.com> for the latest version of this document or the latest information.



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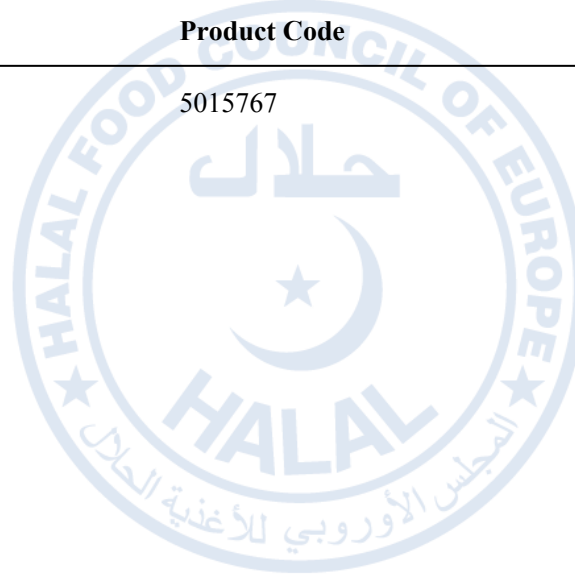
Date: March 09, 2017

Document #: 5256.8996.IH170061

Company Name & Address: **DSM Nutritional Products, Ltd.** PO Box 2676, Postfach, Basel-City CH - 40020 Switzerland

Plant Name & Address: **Vitatene S.A.U** Avda.Ingeniero Sáez de Miera, Leon, Castille and Leon 24009 Spain

Product Name	Product Code	Halal-ID	Product Certificate #
b-Carotene 10% CWS/S	5015767	A47484	HC-17DSRS41




Iqbal Ahmed Qureshi
Director & Halal Administrator



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