

# VITAMIN B12 0.1% WS



## *Certificate for Customer*

Productcode : 0429090  
Lot No. : UT16120034  
Analysis No. : 03B95607

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CfC Number : 03218023  
Articlecode : 0429090004  
Sales Name :  
Manufacturing Date : 27-DEC-201  
Best Use Before Date : 27-DEC-2019

# VITAMIN B12 0.1% WS

## CERTIFICATE OF ANALYSIS

Productcode : 0429090  
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Test	Result	Limits / Specifications	Dimension / Units
<b>Appearance</b> visual	powder	powder	
<b>Colour</b> visual	pink	pink	
<b>Fineness (US Standard sieve)</b> - through Sieve No. 40 / USP jet sieving	100	min. 98	%
<b>Loss on drying</b> 4h / 105°C	4	max. 4	%
<b>Assay Vitamin B12</b> Photometer	0.11	min. 0.1	%
<b>Identity for Vitamin B12</b> Photometer	corresponds	corresponds	
<b>Solubility in water</b> Solubility in water at 50°C	soluble	soluble	
<b>Microbiological purity</b> Total aerobic microbial count Ph.Eur.	<10 <sup>3</sup>	<10 <sup>3</sup> 10 <sup>3</sup>	CFU/g
Total combined yeast/moulds count Ph.Eur.	<10 <sup>2</sup>	<10 <sup>2</sup> 10 <sup>2</sup>	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	

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## ***CERTIFICATE OF ANALYSIS***

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

DSM Nutritional Products Ltd  
The Quality Assurance Manager



BARTH GABRIELE



# 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.

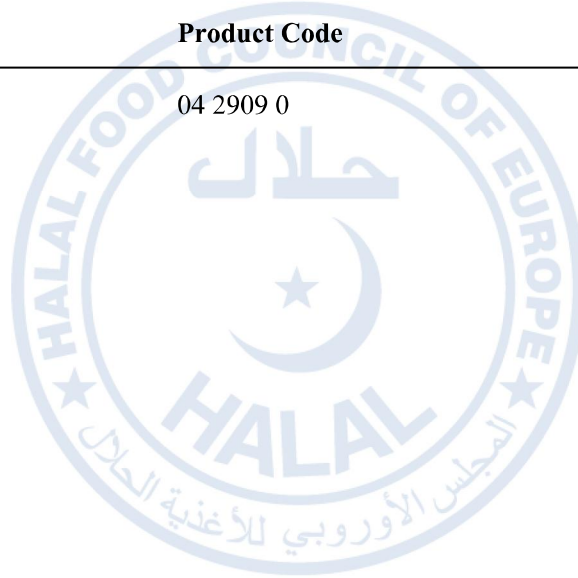
Date: November 16, 2016

Document #: 5256.5257.IH160822

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 #
Vitamin B12 0.1% WS	04 2909 0	A96039	HC-16DS6P16



  
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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## Vitamin B12 0.1% WS

### GMO Statement

We hereby confirm that the active substance used for Vitamin B12 0.1% WS is manufactured by fermentation using a genetically modified micro-organism (GMM) under containment. It has been purified and does not contain any GMM or 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.

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