

# Thiamine Hydrochloride



## *Coversheet for Certificate of Analysis*

Productcode : 0413038  
Lot No. : UQ61102567  
Analysis No. : 01A19191

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CfC Number : 03082338  
Articlecode : 0413038341  
Sales Name : 20 kg Cardboard Box  
Thiamine Hydrochloride  
Manufacturing Date : 16-NOV-2016  
Best Use Before Date : 16-NOV-2019  
Delivery Note No. 8422071266  
Destination : Turkey  
Customer Ref. No : 2016-0490  
Customer Article No: 16/339  
Customer Name: A.T.S. Advanced Technology  
Supplies  
Ticaret A.S.  
ETILER - ISTANBUL

Comment

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# THIAMINE HYDROCHLORIDE



## CERTIFICATE OF ANALYSIS

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Test	Result	Limits / Specifications	Dimension / Units
<b>Appearance</b> visual	Powder	Powder	
<b>Colour</b> visual	White	White Almost white	
<b>Clarity of a solution 5 pc in water</b> Ph.Eur.	Clear	Clear	
<b>Colour of a solution 5 pc in water</b> Ph.Eur.	Not more than Y7	Not more than Y7 Not more than GY7	
<b>pH of a solution 2.5 pc in water</b> Ph.Eur.	3.1	2.7 to 3.3	
<b>Identity</b> Ph.Eur.(test A,C)	Corresponds	Corresponds	
<b>Absorption of a solution 10 pc in water</b> at 400 nm USP	0.004	max. 0.025	
<b>Water</b> Ph.Eur.	4.0	max. 5.0	%
<b>Sulphated ash</b> Ph.Eur.	<0.1	max. 0.1	%
<b>Heavy metals</b> Ph.Eur.	<=10	<=10	ppm
<b>Nitrates</b> USP	Passes test	Passes test	
<b>Sulphates</b> Ph.Eur.	<=300	<=300	ppm
<b>Assay (anhydrous)</b> Ph.Eur.	99.9	98.5 to 101.0	%
<b>Residual solvents</b> Ethanol GC-Headspace	Corresponds*	<=1000	ppm
<b>Related substances</b> Specified imp. A Ph.Eur.	<=0.15	<=0.15	%
Specified imp. B Ph.Eur.	<=0.3	<=0.3	%
Specified imp. C Ph.Eur.	<=0.15	<=0.15	%
Unspecified imp. (each) Ph.Eur.	<=0.10	<=0.10	%
Total impurities	0.2	max. 0.5	%
<b>Lead</b> AAS	Corresponds*	<=1	ppm

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<b>Test</b>	<b>Result</b>	<b>Limits / Specifications</b>	<b>Dimension / Units</b>
<b>Zinc</b> AAS	<=25	<=25	ppm
<b>Nickel</b> AAS	Corresponds*	<=10	ppm

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\*)Checked at regular intervals

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 GmbH  
The Quality Assurance Manager

Ulrike Kuehn

# Product Information

## Thiamine Hydrochloride

### GMO statement

We hereby confirm that the active substance is manufactured by conventional processes<sup>1</sup> and does not contain GM organisms. It does not fall under the scope of Regulation (EC) 1829/2003<sup>2</sup> or under the scope of Regulation (EC) 1830/2003<sup>2</sup>.

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.

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<sup>1</sup> The term “conventional process” refers to chemical synthesis, fermentation using non GMM, extraction from conventional plants.

<sup>2</sup> 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.

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 <https://webshop.dsm.com> for the 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

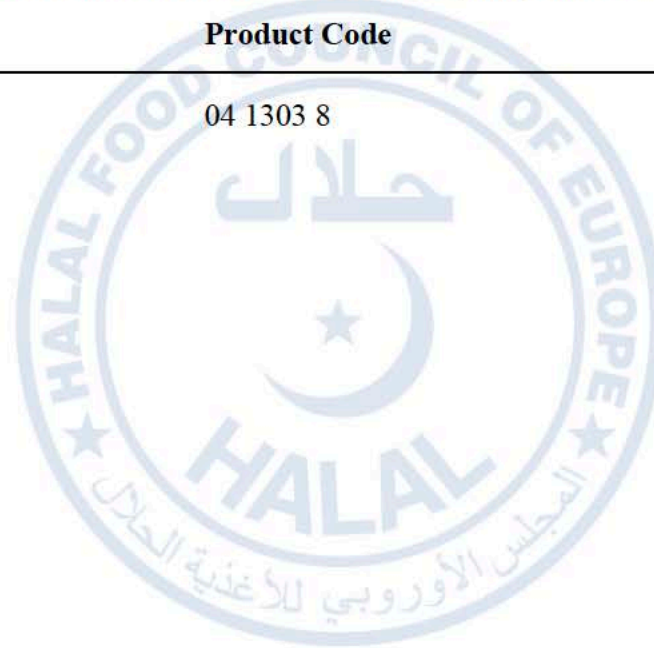
The Halal Food Council of Europe hereby certifies that the products listed below have met the Halal requirements in accordance with Islamic laws.

Date: November 16, 2016

Document #: 5256.5295.IH160412

Company Name & Address: **DSM Nutritional Products, Ltd.** PO Box 2676 Postfach, Basel City CH 40020 Switzerland  
Plant Name & Address: **DSM Nutritional Products** Emil Barell Str. 3 Grenzach Wyhlen, Baden Wuerttemberg 79639 Germany

Product Name	Product Code	Halal-ID	Product Certificate #
Thiamine Hydrochloride	04 1303 8	A29977	HC-16DS2220



  
**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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