

NIACINAMIDE

CERTIFICATE OF ANALYSIS

Productcode : 0487848
 Lot No. : OP11408005
 Analysis No. : 03A43491

| Test | Result | Limits / Specifications | Dimension / Units |
|--|--------------|-------------------------|-------------------|
| Heavy Metals USP (method II) of Niacinamide | <20 | <= 20 | ppm |
| Chloride Limit test JP | <70 | <= 70 | mg/kg |
| Sulfate Limit test JP | <190 | <= 190 | mg/kg |
| Readily carbonizable substances USP of Niacinamide | passes test | passes test | |
| Identification UV, JP/EP/USP of Niacinamide | corresponds | corresponds | |
| Identification NaOH, JP/EP of Niacinamide | corresponds | corresponds | |
| Identification IR, JP/EP/USP of Niacinamide | corresponds | corresponds | |
| Loss on drying Ph.Eur. of Nicotinamide | 0.1 | <= 0.5 | % w/w |
| Lead Flame AAS | corresponds* | <= 2 | ppm |
| Residual Solvents USP <467> | conforms | conforms | |

*) 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:

USP,FCC,Ph.Eur.

DSM Nutritional Products Ltd
 The Quality Assurance Manager



Kreutzer Andrea

Niacinamide

GMO Statement

We hereby confirm that the product Niacinamide is manufactured by conventional processes** and therefore does 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

المجلس الأوروبي للأغذية الحلال
Halal Food Council of Europe

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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 Document Issued:
December 1, 2016

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Company Name & Address: **DSM Nutritional Products, Ltd.**
PO Box 2676
Postfach, Basel SWITZERLAND

Manufactured at: Lonza Guangzhou Nansha Ltd.
68 Huangge Dadaobei, Nansha District
511455 Guangzhou, Guangdong CHINA

Name of Product(s):
1. 04 8784 8 Niacinamide


Iqbal Ahmed Qureshi
Director & Halal Administrator



Valid until: **November 17, 2017**



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