

CERTIFICATE OF ANALYSIS

D Panthenol

Product Code:	0413852	Manufacturing Date:	25-Feb-2021
Analysis Number:	4840	Release Date:	07-Sep-2021
Lot Number:	TL02102022	Best Use Before:	25-Feb-2024

Test	Test Method	Result	Limits/Specification
Appearance:	Visual	viscous liquid	viscous liquid
Colour:	Visual	colorless	colorless, slightly yellow
Solution in water 5%:	Spectroscopy	clear	clear
Colour of solution in water 5 %:	Visual	>B6	not more coloured than Ph. Eur. B6
pH of 5% solution in water:	Potentiometry	10.1	9.0 - 10.5
Identity by specific rotation and IR:	Visual	corresponds*	corresponds
Refractive Index (589nm, 20 deg. C):		1.500	1.497 - 1.501
Specific Rotation (589nm, 20 deg C, c=5):	Polarimetry	30.1 °	+29.0 - +31.5 °
Water:	Karl Fischer titration	0.1 %	≤ 1.0 %
Sulfated Ash:	Gravimetric analysis	corresponds*	≤ 0.1 %
Heavy Metals colourimetric:	Visual	corresponds*	≤ 10 ppm
Lead:	AAS	corresponds*	≤ 1.0 ppm
Free Amines as Aminopropanol:	Titration	0.4 %	≤ 0.5 %
Impurities by HPLC:	HPLC		
Pantoic acid		0.2 %	≤ 0.5 %
Pantolactone		0.6 %	≤ 1.0 %
Residual Solvents:	Gas chromatography		
Dichloromethane		corresponds*	≤ 50 ppm

D-Panthenol



Coversheet for Certificate of Analysis

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Lot No. : TL02102022
Analysis No. : L4840



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CfC Number : 04576963
Articlecode : 0413852331
Sales Name : 20 KG PAIL PE D-Panthenol
Manufacturing Date : 25-FEB-2021
Best Use Before Date : 25-FEB-2024
Delivery Note No. 2422072697
Destination : Spain
Customer Ref. No : PC2101873
Customer Article No: .045
Customer Name: DISPROQUIMA,S.A.
C/Terra 42, Pol. Ind. Els
Bellots
Terrassa

Article desc. CoA
Comment

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Residual Solvents:, cont.	Gas chromatography		
Methanol		corresponds*	≤ 200 ppm
Assay (as dry) non aqueous titration:	Titration	100.2 %	98.0 - 101.0 %
Microbiological Purity:	Test for microbiological quality		
Total Aerobic Microbial Count adapted Ph. Eur. 2.6.12		corresponds*	≤ 100 CFU/g
Total Comined Yeasts and Moulds adapted Ph. Eur. 2.6.12		corresponds*	≤ 100 CFU/g
Enterobacteria PH. Eur. 2.6.13		corresponds*	≤ 10 CFU/g
Salmonella spp Ph. Eur. 2.6.13		corresponds*	negative in 25 g
Escherichia coli Ph. Eur. 2.6.13		corresponds*	negative in 10 g
Staphylococcus aureus Ph. Eur. 2.6.13		corresponds*	negative in 10 g
Pseudomonas aeruginosa Ph. Eur. 2.6.13		corresponds*	negative in 10 g
Candida albicans Ph. Eur. 2.6.13		corresponds*	negative in 10 g

*) checked at regular intervals

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This lot has been analyzed against the substance specifications given above and released. The manufacturing and control records have been reviewed by our authorized Quality organization. The lot has been produced in conformity with Good Manufacturing Practices (GMP) applicable to the uses stated by DSM.

Statements regarding compliance of our products with applicable regulations and GMP standards are available on our customer portal under <https://webshop.dsm.com>. For compendial Compliance please refer to DSM Product Data sheet.

Matthew Brown, Designated Quality Assurance Manager
(This document has been generated and signed electronically)

DSM Nutritional Products (UK) Ltd
Quality Assurance

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