

D-Panthenol



Coversheet for Certificate of Analysis

Productcode : 0413852
Lot No. : TL01908105
Analysis No. : 06212875



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CfC Number : 03940101
Articlecode : 0413852331
Sales Name : 20 KG PAIL PE D-Panthenol
Manufacturing Date : 16-AUG-2019
Best Use Before Date : 15-AUG-2022
Delivery Note No. 2422059908
Destination : Spain
Customer Ref. No : PC1902250
Customer Article No: 45
Customer Name: DISPROQUIMA,S.A.
C/Terra 42, Pol. Ind. Els
Bellots
Terrassa

Article desc. CoA
Comment

D-PANTHENOL

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Test	Result	Limits / Specifications	Dimension / Units
Appearance visual	viscous liquid	viscous liquid	
Colour visual	colourless	colourless slightly yellow	
Solution in Water (c = 5) visual	clear	clear	
Colour of Solution in water (c = 5) of 5% solution in water	>B6	>B6 B6	Ph Eur
pH (c = 5 in water) of 5% solution in water	10.1	9.0 to 10.5	
Identity by specific rotation and IR	corresponds*	confirmed by specific rotation and IR	
Refractive Index (589nm, 20 deg.C) Refractometer	1.498	1.497 to 1.501	
Specific Rotation as dry (589nm,20degC,c=5)	30.3	+29.0 to +31.5	deg
Water KF	0.14	0.0 to 1.0	%
Sulfated Ash sulfated ash	corresponds*	0.0 to 0.1	%
Heavy Metals colourimetric comparison to Pb standard	corresponds*	0 to 10	ppm
Lead atomic absorption	corresponds*	max. 1.0	ppm
Free Amines as Aminopropanol non aqueous titration	0.4	0.0 to 0.5	%
Pantoic Acid HPLC	0.1	0 to 0.5	%
Pantolactone HPLC	0.6	0 to 1.0	%
Dichloromethane headspace GC	corresponds*	max. 50	ppm
Methanol headspace GC	corresponds*	max. 200	ppm
Assay (as dry) non aqueous titration	100.9	98.0 to 101.0	%
Microbiology Total Aerobic Microbial Count adapted Ph. Eur. 2.6.12	corresponds*	max 100 cfu/g	

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Test	Result	Limits / Specifications	Dimension / Units
Total combined Yeasts/Moulds adapted Ph. Eur. 2.6.12	corresponds*	max 100 cfu/g	
Enterobacteria Ph. Eur. 2.6.13	corresponds*	max 10 cfu/g	
Salmonella spp. Ph. Eur. 2.6.13	corresponds*	negative in 25g	
Escherichia coli Ph. Eur. 2.6.13	corresponds*	negative in 10g	
Staphylococcus aureus Ph. Eur. 2.6.13	corresponds*	negative in 10g	
Pseudomonas aeruginosa Ph. Eur. 2.6.13	corresponds*	negative in 10g	
Candida albicans Ph. Eur. 2.6.13	corresponds*	negative in 10g	

*) 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 (UK) Ltd.
The Quality Assurance Manager



Young Scott