

D-Panthenol



Coversheet for Certificate of Analysis

Productcode : 0413852
Lot No. : TL01608074
Analysis No. : 06187648



C/ Terra, 42 P.I. Els Bellots
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CfC Number : 03047548
Articlecode : 0413852331
Sales Name : 20 KG CUBO DE PLASTICO/
US D-PANTHENOL
Manufacturing Date : 04-AUG-2016
Best Use Before Date : 04-AUG-2019
Delivery Note No. 2422036745
Destination : Spain
Customer Ref. No : 1601313 PC
Customer Article No:
Customer Name: DISPROQUIMA, S.A.
C/Terra 42, Pol. Ind. Els
Bellots
Terrassa

Comment

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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 (5 percent) of 5% solution in water	>B6	>B6 B6	Ph Eur
pH (c = 5 in water) of 5% solution in water	9.9	9.0 to 10.5	
Identity by specific rotation and IR	corresponds*	confirmed by specific rotation and IR	
Refractive Index Refractometer	1.498	1.497 to 1.501	
Specific Rotation as dry 589nm, 20 deg.C, c=5	30.4	+29.0 to +31.5	deg
Water KF	0.03	0.0 to 1.0	%
Sulfated Ash sulfated ash	corresponds*	0.0 to 0.1	%
Heavy Metals colorimetric comparison to Pb standard	corresponds*	0 to 10	ppm
Lead atomic absorption	corresponds*	0 to 5	ppm
Free Amines as Aminopropanol non-aqueous titration	0.4	0 to 0.5	%
Pantoic Acid HPLC	0.2	0 to 0.5	%
Pantolactone HPLC	0.7	0 to 1.0	%
Dichloromethane GC	corresponds*	max. 600	mg/kg
Methanol GC	corresponds*	max. 3000	mg/kg
Assay (as dry) non-aqueous titration	99.7	98.0 to 101.0	%

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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 (UK) Ltd.
The Quality Assurance Manager



Strachan Fraser