

**VMP Chemiekontor GmbH**  
**CoA**  
**Industriestrasse 16**  
**53721 Siegburg**

Date: 22.11.2021  
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## Certificate of Analysis

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**Your order No.** : 1BE21100158  
**Your order date** : 27.10.2021

**Delivery no./Item** : 83149406 / 900001  
**Order** : 92242  
**Material** : WeylCare Allantoin EP/USP 25KG/400KG PAL  
**Material No.** : 28196423997  
**Batch No.** : FRBB21048  
**Quantity** : 400 KG

From a representative sample the following values were determined:

<b>Characteristic Method</b>	<b>Specification</b>	<b>Result</b>	<b>Unit</b>
Appearance : white powder EP (Visual examination)	conforms	conforms	
Assay by potentiometric titration (EP) EP (Titrimetry)	98,5 - 101,0	99,4	%
Identification A (EP) EP2.2.24 (IR Spectrophotometry)	conforms	conforms	
Identification B (EP) EP (TLC)	conforms	conforms	
Identification C (EP) EP (Visual examination)	conforms	conforms	
Identification D (EP) EP (Visual examination)	conforms	conforms	
Acidity or alkalinity (EP) EP (Visual examination)	conforms	conforms	
Optical rotation (EP) EP2.2.7 (Polarimetry)	-0,10 - +0,10	0,00	deg

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<b>Characteristic Method</b>	<b>Specification</b>	<b>Result</b>	<b>Unit</b>
Reducing substances (EP) EP (Visual examination)	conforms	conforms	
Related substances (EP) EP2.2.27 (TLC)	conforms	conforms	
Loss on drying (EP) EP2.2.32 (Gravimetry)	$\leq 0,1$	0,0	%
Sulphated ash (EP) EP2.4.14 (Gravimetry)	$\leq 0,1$	0,1	%
Solubility (EP) EP (Visual examination)	conforms	conforms	
Melting point (EP) EP2.2.14 (Visual examination)	$\geq 225,0$	227,8	°C
Total aerobic microbial count (EP) EP2.6.12 Cultural technique (non-chromogenic media)	$\leq 100$	10	CFU/g
E.Coli (EP) EP2.6.13 Cultural technique (non-chromogenic media)	conforms	conforms	

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<b>Characteristic Method</b>	<b>Specification</b>	<b>Result</b>	<b>Unit</b>
Pseudomonas aeruginosa (EP) EP2.6.13 Cultural technique (non-chromogenic media)	conforms	conforms	
Staphylococcus aureus (EP) EP2.6.13 Cultural technique (non-chromogenic media)	conforms	conforms	
Candida albicans (EP) EP2.6.13 Cultural technique (non-chromogenic media)	conforms	conforms	
Salmonella (EP) EP2.6.13 Cultural technique (non-chromogenic media)	conforms	conforms	
Assay by potentiometric titration (USP) USP (Titrimetry)	98,5 - 101,0	99,4	%
Identification A (USP) USP197 (IR Spectrophotometry)	conforms	conforms	
Identification B (USP) USP201 (TLC)	conforms	conforms	
Acidity or alkalinity (USP) USP (Visual examination)	conforms	conforms	

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<b>Characteristic Method</b>	<b>Specification</b>	<b>Result</b>	<b>Unit</b>
Reducing substances (USP) USP (Visual examination)	conforms	conforms	
Loss on drying (USP) USP731 (Gravimetry)	<= 0,1	0,0	%
Organic impurities (USP) USP621 (TLC)	<= 0,5	0,0	%
Residue on ignition (USP) USP281 (Gravimetry)	<= 0,1	0,1	%

Date of production: 20.04.2021

Expiration date, shelf life: 19.04.2024

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The analytical results should not be construed as guaranteeing specific properties of the product or its suitability for a particular application.

The above data do not release one from carrying out an incoming goods inspection.

With regard to the analyzed parameters the tested sample material meets the respective requirements of the current EP (monograph: 1288) and the respective requirements of the current USP (monograph: Allantoin).

All parameters above refer to the current versions of EP and USP.

This report is not to be signed.