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**Your order no. 20180309-407006**

<b>Our reference no.</b>	: <b>PI1803210036</b>		
Product	: Wax		
Sample description / Batch	: <b>BEESWAX - FR47</b>		
Sample received on / transported by	: 20.03.2018 via Parcel service	Seal	: none
Sample temp. when received / stored	: RT	Sampling	: Client
Packaging / Quantity	: Plastic bag / ca. 100g	Start / End of analysis	: 21.03.2018 / 26.03.2018

**ANALYSIS REQUESTED: Descriptive Indices of Beeswax (108211)**

Parameter	Result	Unit	Method
Saponification Value	96.7		Ph. Eur. 9.0 (S) (na) <sup>1</sup>
Acid Value	20.8		Ph. Eur. 9.0 (S) (na) <sup>1</sup>
Ester Value	75.9		Ph. Eur. 9.0 (S) (na) <sup>1</sup>
Ratio Number	3.7		Ph. Eur. 6.0 (S) (na) <sup>2</sup>
<p>Expected value range according to relevant literature: 17-24 (acid value), 66-82 (ester value), 83-104 (saponification value) mg KOH/g, 3.0-4.3 (ratio number). Specification according to Pharm. Eur.: Cera Alba: 17-24 (acid value), 70-80 (ester value), 87-104 (saponification value) mg KOH/g Cera Flava: 17-22 (acid value), 70-80 (ester value), 87-102 (saponification value) mg KOH/g</p>			
<p>(S) : Placed with subcontractor. (a) : accredited method. (na) : not accredited method. (1) non-GMP (2) non-GMP This document may only be reproduced in full. The results given herein apply to the submitted sample only.</p>			

**Interpretation:**

The analysis results lie within the expected range for pure beeswax according to acknowledged literature (Bernal et al., Eur. J. Lipid Sci. Technol. 107 (2005), 158-166). Regarding the analyzed parameters the sample corresponds to the specification for beeswax of the European Pharmacopoeia and Regulation (EU) No 231/2012.

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