

## Analysis report 13765454001

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19 Mar 2024

<b>sample number</b>	13765454	<b>order</b>	202928
<b>sample code client</b>		<b>date of receipt</b>	13 Mar 2024
<b>product group</b>	beeswax	<b>sample receipt</b>	per courier
<b>sample</b>	plastic bag without seal	<b>sampling</b>	by client
<b>description</b>	VZOREK 24/02	<b>quantity</b>	159 g (gross)
		<b>temperature</b>	room temperature

### 301 Adulteration of beeswax 1 GC

#### PV55001 2023-12 paraffin per gaschromatography-FID (accredited)

(inhouse procedure)

processing time 13 Mar 2024 - 19 Mar 2024

analyte	limit of quantification	result
foreign hydrocarbons e.g. Paraffin, Ceresin	1,0 %	< LOQ

The extended relative measurement uncertainty is 50% (extension factor K=2 / confidence interval 95%). Sampling is not considered.

LOQ = Limit of Quantification

quantification based on a paraffin wax with a meltic point of 53-57°C (ASTM D 87)

#### assessment:

Within the framework of the analyzed parameters, an addition with foreign hydrocarbons could not be detected. The sample could be considered as authentic beeswax.

#### PV55002 2023-12 fatty acids per gaschromatography-FID (accredited)

(inhouse procedure)

processing time 13 Mar 2024 - 19 Mar 2024

analyte	limit of quantification	result
Cerotic acid	0,2 %	0,8 %
Palmitic acid	1,0 %	2,3 %
Stearic acid	0,05 %	0,14 %
Triglycerids (animal/vegetable)	-	negative

The extended relative measurement uncertainty is 24% (extension factor K=2 / confidence interval 95%). Sampling is not considered.

LOQ = Limit of Quantification

authentic beeswax: max. 9,5% palmitic acid; max. 0,6% stearic acid; max. 2,0% cerotic acid

#### assessment:

Within the framework of the analyzed parameters, the amount of fatty acids are in a typical range for authentic beeswax. The sample could be considered as authentic beeswax.

The results refer only to the analysed sample .

It is not permitted to replicate this quality report in extracts without written permission of the laboratory.

Nadine Raum 