

Analysis report 13855994001

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64602 Lozova, Kharkiv region
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05 Aug 2024

sample number	13855994	order	206067
sample code client		date of receipt	01 Aug 2024
product group	beeswax	sample receipt	per courier
sample	plastic bag without seal	sampling	by client
description	Z7/8	quantity	94 g (gross)
		temperature	room temperature

301 Adulteration of beeswax 1 GC

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

(inhouse procedure)

processing time 02 Aug 2024 - 05 Aug 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 02 Aug 2024 - 05 Aug 2024

analyte	limit of quantification	result
Cerotic acid	0,2 %	1,1 %
Palmitic acid	1,0 %	3,1 %
Stearic acid	0,05 %	0,16 %
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 