

Report date 30.06.2025

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## Analytical report

AR-25-TH-009098-01-PTHS1



## Sample Code

296-2025-00008949

### **1 Sample name**

100gram of Bula Honey for Testing Batch Send out June25

### **Packaging**

Plastic cup

### **Product**

Honey

### **Sampler**

Client

### **'Origin**

FIJI

### **Number sample tubes**

1

### **Type of seal**

Existent

### **'Seal description**

Plastic banderole

### **Amount**

approx.100 g

### **Reception temperature**

room temperature

### **Reception date time**

24.06.2025

### **Start / End of analysis**

24.06.2025 / 30.06.2025

## Test results

### Authenticity

**THH26 C4/C3 Sugars in Honey (13C EA/LC-IRMS) (#)**  
 Method ICS SOP 520-13 (2021-03)

		Result	Uncertainty	Unit
Delta 13C (Protein/VPDB)		-25.70	(± 0.43)	‰
Delta 13C (Honey/VPDB)		-26.30	(± 0.23)	‰
Delta 13C (Fructose/VPDB)		-26.50	(± 0.33)	‰
Delta 13C (Glucose/VPDB)		-26.71	(± 0.33)	‰
Delta 13C (Disaccharides/VPDB)		-24.67	(± 0.52)	‰
Delta 13C (Trisaccharides/VPDB)		-24.71	(± 0.77)	‰

<sup>1</sup>: This information was provided by the customer. Data provided by the customer may have an impact on the validity of the test results and the result assessment.

The analysis results and evaluation refer exclusively to the submitted samples and the scope of investigation. The measurement uncertainty does not include possible variation by sampling, if not stated otherwise.

The norm "General requirements for the competence of testing and calibration laboratories (DIN EN ISO/IEC 17025:2018, chapter 7.8.6) requires to state the decision rule for the consideration of the expanded measurement uncertainty in the conformity assessment analysis results obtained for the tested samples. Eurofins Food Integrity Control Services GmbH considers the expanded measurement uncertainty in case the analysis results exceed a legal limit or specification value. In case the analysis results do not exceed a legal limit or specification value, the expanded measurement uncertainty is not considered. Please contact us, if you have particular requirements differing from this standard procedure in order to set up an individual procedure according to your specific needs.

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Eurofins Food Integrity Control Services GmbH · Berliner Straße 2 · D-27721 Ritterhude

The place of execution and jurisdiction is Walsrode - lower district court Walsrode HRB 206619.

Managing Director: Piotr Woloszyn

VAT No.: DE301552996

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Delta 13C (Oligosaccharides/VPDB)	na	%
Delta 13C (F-G)	0.21	%
Delta 13C (max.)	-2.04	(± 0.40) %
Percentage of C4 sugar	0.00	%
Disaccharides rel. to total sugar content	10.87	%
Trisaccharides rel. to total sugar content	4.82	%
Oligosaccharides rel. to total sugar content	nd	%
F/G-ratio	1.09	

**THP01 Honey Authenticity by LC-HRMS (#)**

Method ICS SOP 520-17 (2021-04), LC-Orbitrap-HRMS

	Result	Uncertainty	Unit
Exogenous sugar	Not detected		

**THPC0 Geo. and bot. origin confirmation by LC-HRMS (#)**

Method ICS SOP 520-26 (2024-05)

	Result	Uncertainty	Unit
Botanical origin by LC-HRMS (THP01)	-		
Probability factor (botanical origin)	-		
Geographical origin by LC-HRMS (THP01)	-		
Probability factor (geographical origin)	-		

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(#) = Eurofins Food Integrity Control Services is accredited for this test.

## **Assessment**

With regard to the stated authenticity tests the sample is considered to be not adulterated with foreign sugars and therefore corresponds to the legal requirements (EU Honey Directive 2001/110/EC, article 1 and annex II from June 23rd, 2014).

THH26: Assessment criteria for pure honey (Apidologie 39 (2008) 574-587):

Delta 13C (F-G): not higher than  $\pm 1,0 \text{ ‰}$

Delta 13C (max): not higher than  $\pm 2,1 \text{ ‰}$

C4 sugar (calculated): < 7 %

Oligosaccharides (related to total sugar content): not detected (n.d.) < 0.7 %

Remark:

na: not analyzed, because not detected

Values in brackets: expanded measurement uncertainty (F = 2.58; 99%).

Signature

  
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Scientist Assistant (Larissa Schwarzpaul)

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