

Moniko dooel
attn. Mr. Vladimir Kjurchiev
ul. Atinska br. 25/27
1000 Skopje
NORD MAZEDONIEN

Report date 29.12.2023

Page 1/3

Analytical report

AR-23-TH-013897-01-PTH04



Sample Code

296-2023-00014183

Sample name	Sample 6- Honey - Toni Voda
Packaging	Plastic cup
Sampler	Client
Number sample tubes	1
Type of seal	Without seal
Amount	approx. 170 g
Reception temperature	room temperature
Reception date time	21.12.2023
Start / End of analysis	21.12.2023 / 29.12.2023

Test results

Sensory analysis

THH25	Sensory Analysis of Honey (#)
Method	ICS SOP 520-02 (2018-08)

sensory indication

Color: water-light yellow

Consistency: viscous

Odor: typical for honey

Taste: sweet, bloomy, mild, typical for honey

The customer, except those data generated during the sample registration and on-site by Eurofins, submitted all sample information. Data provided by the customer may influence the validity of results and the result interpretation.
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.

Any publication of this report requires written permission. An excerpt publication is not allowed.

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: Dr. Kurt-Peter Ræzke

VAT No.: DE301552996

Hypovereinsbank SWIFT-BIC: HYVEDEMM33 IBAN: DE77 2073 0017 7000 0022 00

Our General Terms & Conditions, available upon request and online at
<http://www.eurofins.de/lebensmittel/kontakt/avb.aspx>, shall apply.



Microscopy

THH21 Pollen Analysis - Bot. & Geogr. Origin (ADV) (#)

Method DIN 10760 mod. (2002-05) [ICS SOP 520-11 (2018-03)]

Modification: Sample amount

Microscopic examination of pollen

Number of pollen counted: 500

Number of types of pollen identified: 27

Other components of sediment: elements of fungus, spores, bee hair, crystals, wax particles, plant tissue, vegetable fibers, black particles, raphides

Yeast content / 10 g honey: 10.000 - 100.000 (low)

Starch content: < 5/500* Pollen

Amount of honeydew particles: low

Pollen from nectarless plants: 271

Very frequent pollen > 46 %

none

Frequent pollen 16 - 45 %

36% Scrophulariaceae/Verbascum/Königskerze/Mullein

27% Fabaceae/Trifolium repens spec./Weissklee/White Clover

17% Rosaceae/Rubus spec./Brombeere/Himbeere/Bramble/Raspberry

Single pollen 3 - 15%

5% Fabaceae/Onobrychis/Esparssetten/Sainforn

5% Rhamnaceae/diff. genera/Kreuzdorngewächse/Buckthorn Family

Isolated pollen < 3 %

Araliaceae/Hedera spec./Efeu/Ivy

Asteraceae/Carduus spec./Ringdistel/Plumeless Thistle

Asteraceae/Centaurea jacea/Wiesen-Flockenblume/

Asteraceae/Taraxacum/Löwenzahn/Dandelion

Boraginaceae/Echium spec./Natternkopf/Vipers Buggloss

Boraginaceae/Myosotis spec./Vergißmeinnicht/Forget-me-not

Caryophyllaceae/diff. genera./Nelkengewächse/Pink Family

Cistaceae/Helianthemum/Sonnenröschen/Sun Rose°

Dipsacaceae/diff. genera./Kardengewächse

Fabaceae/Genista/Ginster/Greenweed

Fabaceae/Lotus/Hornklee/Brid's Foot Trefoil

Fabaceae/Trifolium pratense spec./Rotklee/Red Clover

Fagaceae/Castanea sativa/Edelkastanie/Sweet Chestnut

Hypericaceae /Hypericum spec. /Echtes Johanniskraut/St. John's Wort°

Lamiaceae/Teucrium/Gamander/Germander

Lamiaceae/Thymus spec./Thymian/Thyme

Lythraceae/diff. genera/Weidericharten

Malvaceae/Tilia spec./Linde/Linden

Papaveraceae/Papaver spec./Mohn/Poppy°

The customer, except those data generated during the sample registration and on-site by Eurofins, submitted all sample information. Data provided by the customer may influence the validity of results and the result interpretation. 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.

Any publication of this report requires written permission. An excerpt publication is not allowed.

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: Dr. Kurt-Peter Ræzke

VAT No.: DE301552996

Hypovereinsbank SWIFT-BIC: HYVEDEMM17 IBAN: DE77 2073 0017 7000 0022 00

Our General Terms & Conditions, available upon request and online at

<http://www.eurofins.de/lebensmittelkontakt/avb.aspx>, shall apply.



Poaceae/diff.genera/Süßgräser/Graminea°
 Polygonaceae/Rumex spec./Ampfer/Sorrel°
 Sapindaceae/Acer spec./Ahorn/Maple
 °nectarless plant

Physico-chemical analysis
THH05 Electrical conductivity (20 °C) (#)

Method ICS SOP 510-06 (2021-04)

Conductivity at 20°C

Result	Uncertainty	Unit
0.14	(± 0.01)	mS/cm

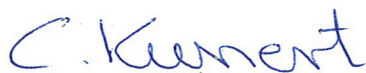
(#)= Eurofins Food Integrity Control Services is accredited for this test.

Assessment

According to the pollen-analysis, organoleptic properties, and corresponding physical-chemical parameters (electrical conductivity) the above-mentioned sample may be called "Blossom Honey" (Honey directive 2001/110/EU, Article 2 from June 23rd, 2014, in connection with Annex I and relevant literature: BMEL (2022). Neufassung der Leitsätze des Deutschen Lebensmittelbuchs für Honig. GMBI 2022, S. 429-430).

Based on the current scientific knowledge, the analyzed pollen spectrum indicates "Southeastern Europe (Macedonia possible)" as regional origin (Honey Directive 2001/110/EC; Article 2 in connection with Annex I and relevant literature).

Signature



Head of Laboratory / Laborleiter (Dr. Christof Kunert)

The customer, except those data generated during the sample registration and on-site by Eurofins, submitted all sample information. Data provided by the customer may influence the validity of results and the result interpretation.
 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.

Any publication of this report requires written permission. An excerpt publication is not allowed.
 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: Dr. Kurt-Peter Ræzke

VAT No.: DE301552996

Hypovereinsbank SWIFT-BIC: HYVEDE3317 IBAN: DE77 2073 0017 7000 0022 00

Our General Terms & Conditions, available upon request and online at
<http://www.eurofins.de/lebensmittel/kontakt/avb.aspx>, shall apply.



Moniko dooel
attn. Mr. Vladimir Kjurchiev
ul. Atinska br. 25/27
1000 Skopje
NORD MAZEDONIEN

Report date 29.12.2023

Page 1/3

Analytical report

AR-23-TH-013897-01-PTH02



Sample Code

296-2023-00014183

Sample name Sample 6- Honey - Toni Voda
Packaging Plastic cup
Sampler Client
Number sample tubes 1
Type of seal Without seal
Amount approx. 170 g
Reception temperature room temperature
Reception date time 21.12.2023
Start / End of analysis 21.12.2023 / 29.12.2023

Test results

Physico-chemical analysis

THH01 5-Hydroxymethylfurfural (HMF) (#)

Method ICS SOP 510-08 (2019-09)

5-Hydroxymethylfurfural

Result <2 * Uncertainty Unit mg/kg

THH02 Moisture (#)

Method DIN 10752-2 2018-09

Water content

Result 15.5 Uncertainty (± 0.2) Unit g/100 g

THH03 pH Value (#)

Method ICS SOP 510-06 (2021-04)

pH-value

Result 4.0 Uncertainty (± 0.1) Unit

The customer, except those data generated during the sample registration and on-site by Eurofins, submitted all sample information. Data provided by the customer may influence the validity of results and the result interpretation.
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.

Any publication of this report requires written permission. An excerpt publication is not allowed.
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: Dr. Kurt-Peter Ræzke

VAT No.: DE301552996

Hypovereinsbank SWIFT-BIC: HYVEDEMM17 IBAN: DE77 2073 0017 7000 0022 00

Our General Terms & Conditions, available upon request and online at
<http://www.eurofins.de/lebensmittel/kontakt/avb.aspx>, shall apply.



**THH04 Diastase activity (#)**

Method ICS SOP 510-04 (2021-04)

Diastase activity

Result	Uncertainty	Unit
31.2	(± 2.5)	DN

THH06 Free acid (#)

Method ICS SOP 510-06 (2021-04)

Free acidity

Result	Uncertainty	Unit
12	(± 2)	mmol/kg

THH07 Water insoluble substances (#)

Method DIN10743 2013-05

Water insoluble matter

Result	Uncertainty	Unit
0.012	(± 0.002)	g/100 g

THH08 Sugars in Honey (LC-ELSD) (#)

Method DIN 10758 (1997-05) mod. [ICS SOP 510-02 (2021-03)

Modification: ELSD Detection; Downscaled sample preparation; LC flow rate

Fructose

Result	Uncertainty	Unit
40.6	(± 3.2)	g/100 g

Glucose

30.4	(± 2.4)	g/100 g
------	---------	---------

Fructose / Glucose

1.34	(± 0.10)	
------	----------	--

Glucose+Fructose

71.0		g/100 g
------	--	---------

Sucrose

0.2	(± 0.1)	g/100 g
-----	---------	---------

Turanose

2.1	(± 0.5)	g/100 g
-----	---------	---------

Maltose

1.6	(± 0.4)	g/100 g
-----	---------	---------

THH11 Glucose / Moisture Ratio (Calculation) (#)

Method calculation

Glucose / Moisture

Result	Uncertainty	Unit
1.96		

The customer, except those data generated during the sample registration and on-site by Eurofins, submitted all sample information. Data provided by the customer may influence the validity of results and the result interpretation.
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.

Any publication of this report requires written permission. An excerpt publication is not allowed.

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: Dr. Kurt-Peter Ræzke

VAT No.: DE301552996

Hypovereinsbank SWIFT-BIC: HYVEDEMM17 IBAN: DE77 2073 0017 7000 0022 00

Our General Terms & Conditions, available upon request and online at
<http://www.eurofins.de/lebensmittel/kontakt/avb.aspx>, shall apply.



* = below indicated quantification level

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

Assessment

Regarding the examined parameters the sample corresponds to the legal regulations (Honey directive 2001/110/EU, Article 2 in connection with Annex II and relevant literature: BMEL (2022). Neufassung der Leitsätze des Deutschen Lebensmittelbuchs für Honig. GMBI 2022 S. 429-430).

Remark:

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

Signature



Head of Laboratory / Laborleiter (Dr. Christof Kunert)

The customer, except those data generated during the sample registration and on-site by Eurofins, submitted all sample information. Data provided by the customer may influence the validity of results and the result interpretation.
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.

Any publication of this report requires written permission. An excerpt publication is not allowed.

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: Dr. Kurt-Peter Raezke

VAT No.: DE301552996

Hypovereinsbank SWIFT-BIC: HYVEDEMM33 IBAN: DE77 2073 0017 7000 0022 00

Our General Terms & Conditions, available upon request and online at
<http://www.eurofins.de/lebensmittel/kontakt/avb.aspx>, shall apply.

