

Test Report No. 210-1629141

QSI GmbH - Flughafendamm 9a - D-28199 Bremen
s.c. Apidava s.r.l.

Gheorghe Baritiu 32
515400 Blaj (Alba)
ROMANIA

Date: 09-Dec-2025

Customer No.:	11308	Sample No.:	643654
Product:	Honig/Honey		
Label: Order sheet No. 558, LOT SRO747(SRO747.1....SRO747.15), ACACIA HONEY			
Arrival Date:	04-Dec-2025	Start / End of Analysis:	04-Dec-2025 / 09-Dec-2025
Kind/Origin:	Romania Acacia	Packaging:	Kunststoff / plastic
Seal:	ohne/without	Temp.:	RT

VA161 (2024-01) Tradeanalysis: Moisture, HMF, Diastase (Schade method), pH, Acidity, Honey-Directive

Parameter	Method	Unit	Result
Moisture	ASU L 40.00-2/2, 2024-08	%	16,1 (determined at 20°C)
HMF (Hydroxymethylfurfural)	ASU L 40.00-10/3, 2019-07 mod.^	mg/kg	15,1
Diastase activity	ASU L 40.00-1, 2019-07 mod.^	DN Schade	11,4
pH-value	ASU L 40.00-6, 2011-06		4,1
Acidity	ASU L 40.00-6, 2011-06	meq/kg	10,0
Accordance with EC Honey Directive			Honig/honey

Accredited method

n.n. = below limit of quantitation (HMF: 1 mg/kg)

^Weighing, treatment with Carrez, HPLC conditions, ^^sample weight and buffer amount; adaptation to Random Access Analyzer

The expanded relative measurement uncertainty is 2.7 % (Moisture); 14 % (HMF); 12 % (Diastase); 0.5 % (pH-value); 10 % (acidity) (coverage factor k=2.58; confidence interval 99 %) without taking the sampling into account.

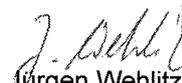
Conclusion:

The determined values are in accordance with the requirements of Council Directive 2001/110/EC Annex II of 20. December 2001 relating to Honig/honey.

Version 1 replacing Version 0

The following changes to the previous version were made: No changes (technical re-check)

Quality Services International GmbH


Jürgen Wehlitz
Test Manager
Food Chemist



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Test Report No.: 210-1629141 Version 1

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Amtsgericht Bremen
HRB 18842
Managing Director:
C. Lüllmann, T. Gerlach

Hypo Vereinsbank
IBAN: DE70 1002 0890 0036 3495 49
BIC: HYVE DE MM488
UST-ID: DE 202142221



Test Report No. 210-1629146

QSI GmbH - Flughafendamm 9a - D-28199 Bremen
s.c. Apidava s.r.l.

Gheorghe Baritiu 32
515400 Blaj (Alba)
ROMANIA

Date: 08-Dec-2025

Customer No.:	11308	Sample No.:	643654
Product:	Honig/Honey		
Label: Order sheet No. 558, LOT SRO747(SRO747.1....SRO747.15), ACACIA HONEY			
Arrival Date:	04-Dec-2025	Start / End of Analysis:	04-Dec-2025 / 08-Dec-2025
Kind/Origin:	Romania Acacia	Packaging:	Kunststoff / plastic
Seal:	ohne/without	Temp.:	RT

VA45204 (2023-08) Antibiotics, Tetracyclines, LC-MS/MS (LOQ 2 ppb), Honey

Parameter in µg/kg	MRL**	LOQ*	Result
Oxytetracycline***		2	n.n.
Tetracycline***		2	n.n.
Chlortetracycline***		2	n.n.
Doxycycline		2	n.n.
Demeclocycline		2	n.n.
Methacycline		2	n.n.
Minocycline		2	n.n.

Accredited method

* LOQ = limit of quantitation; n.n. = below LOQ

**no legal limit (MRL) acc. to 470/2009/EC + 37/2010/EU: no permit for use of antibiotics in beekeeping

*** Sum of parent drug and its 4-epimer

Conclusion:

Under consideration of above indicated limit of quantitation this result complies with EU Regulation 37/2010 (residues of pharmacologically active substances in foodstuffs of animal origin).

Version 0

Quality Services International GmbH


Jürgen Wehlitz
Test Manager
Food Chemist



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Hypo Vereinsbank
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Test Report No. 210-1629145

QSI GmbH - Flughafendamm 9a - D-28199 Bremen
s.c. Apidava s.r.l.

Gheorghe Baritiu 32
515400 Blaj (Alba)
ROMANIA

Date: 08-Dec-2025

Customer No.:	11308	Sample No.:	643654
Product:	Honig/Honey		
Label: Order sheet No. 558, LOT SRO747(SRO747.1....SRO747.15), ACACIA HONEY			
Arrival Date:	04-Dec-2025	Start / End of Analysis:	04-Dec-2025 / 08-Dec-2025
Kind/Origin:	Romania Acacia	Packaging:	Kunststoff / plastic
Seal:	ohne/without	Temp.:	RT

VA45231 (2023-08) Antibiotics, Sulfonamides and Trimethoprim, LC-MS/MS (LOQ 0,5 - 2 ppb), Honey

Parameter in µg/kg	MRL**	LOQ*	Result
Sulfatroxazole		2	n.n.
Sulfalene		2	n.n.
Sulfadimethoxine		0,5	n.n.
Sulfaquinoxaline		0,5	n.n.
Sulfamethizole		1	n.n.
Sulfachlorpyridazine		2	n.n.
Sulfamoxole		1	n.n.
Sulfadoxine		0,5	n.n.
Sulfasalazine		2	n.n.
Sulfabenzamide		0,5	n.n.
Sulfaguanidine		2	n.n.
Sulfanilamide		2	n.n.
Sulfacetamide		2	n.n.
Sulfadiazine		1	n.n.
Sulfathiazole		0,5	n.n.
Sulfapyridine		1	n.n.
Sulfamerazine		1	n.n.
Sulfameter		1	n.n.
Sulfadimidine (= Sulfamethazine)		1	n.n.
Sulfamethoxypridazine		0,5	n.n.
Sulfamethoxazole		1	n.n.
Trimethoprim		0,5	n.n.
Sulfamonomethoxine		0,5	n.n.
Sulfaclozine		2	n.n.

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Sulfisoxazole	1	n.n.
Succinylsulfathiazole	2	n.n.
Sulfaphenazole	2	n.n.
Sulfisozole	2	n.n.
Sulfisomidine	1	n.n.
Sulfaethoxypyridazine	2	n.n.
Sulfanitran	2	n.n.
Ormetoprim	2	n.n.

Accredited method

* LOQ = limit of quantitation; n.n. = below LOQ

** no legal limit (MRL) acc. to 470/2009/EC + 37/2010/EU: no permit for use of antibiotics in beekeeping

Conclusion:

Under consideration of above indicated limit of quantitation this result complies with EU Regulation 37/2010 (residues of pharmacologically active substances in foodstuffs of animal origin).

Version 0

Quality Services International GmbH




Jürgen Wehlitz
Test Manager
Food Chemist

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Test Report No. 210-1629143

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Gheorghe Baritiu 32
515400 Blaj (Alba)
ROMANIA

Date: 08-Dec-2025

Customer No.:	11308	Sample No.:	643654
Product:	Honig/Honey		
Label: Order sheet No. 558, LOT SRO747(SRO747.1....SRO747.15), ACACIA HONEY			
Arrival Date:	04-Dec-2025	Start / End of Analysis:	04-Dec-2025 / 08-Dec-2025
Kind/Origin:	Romania Acacia	Packaging:	Kunststoff / plastic
Seal:	ohne/without	Temp.:	RT

VA86214 (2023-01) Chloramphenicol (CAP), LC-MS/MS (LOQ 0,1 ppb), Honey

Parameter in µg/kg	MRL**	LOQ*	Result
Chloramphenicol		0,1	n.n.

Accredited method

* LOQ = limit of quantitation; n.n. = below LOQ

** no legal limit (MRL) according to 470/2009/EC + 37/2010/EU: Prohibited substance according to EU-Regulation 37/2010 Annex Table 2;

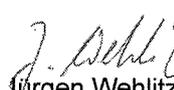
RPA = 0,15 µg/kg (Reference point for action according to EU Regulation 2019/1871)

Conclusion:

Under consideration of above indicated limit of quantitation this result complies with EU Regulation 37/2010 (residues of pharmacologically active substances in foodstuffs of animal origin).

Version 0

Quality Services International GmbH


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Seal:	ohne/without	Temp.:	RT

VA45228 (2023-05) Antibiotics, Streptomycins, LC-MS/MS, Honey (LOQ 2 ppb)

Parameter in µg/kg	MRL**	LOQ*	Result
Streptomycin		2	n.n.
Dihydrostreptomycin		2	n.n.

Accredited method

* LOQ = limit of quantitation; n.n. = below LOQ

** no legal limit (MRL) acc. to 470/2009/EC + 37/2010/EU: no permit for use of antibiotics in beekeeping

Conclusion:

Under consideration of above indicated limit of quantitation this result complies with EU Regulation 37/2010 (residues of pharmacologically active substances in foodstuffs of animal origin).

Version 0

Quality Services International GmbH

A. Rehle

 Anna Rehle
 Test Manager
 Food Chemist



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Test Report No. 210-1629142

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Date: 08-Dec-2025

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VA40262 (2024-11) Authenticity, Isotope analysis, 13C-EA-IRMS (AOAC 998.12, mod.^) + 13C-LC-IRMS (C4/C3-sugar)*, Honey**

Parameter	Method	Unit	Target Value****	Result
Protein (P)	AOAC 998.12	d-13C‰		-24,56
Honey (H)	AOAC 998.12	d-13C‰		-24,71
Fructose (F)	LC-IRMS	d-13C‰		-24,51
Glucose (G)	LC-IRMS	d-13C‰		-24,59
Disaccharides	LC-IRMS	d-13C‰		-25,38
Relative Percentage of Disaccharides*	LC-IRMS	%		9,79
Trisaccharide	LC-IRMS	d-13C‰		-23,59
Relative Percentage of Trisaccharides*	LC-IRMS	%		1,95
Oligosaccharides	LC-IRMS	d-13C‰		n.b.
Relative Percentage of Oligosaccharides*	LC-IRMS	%		n.n.
F/G ratio	LC-IRMS			1,49
Difference d-13C Fructose-Glucose (F-G)	LC-IRMS	d-13C‰	- 1 to + 1	+0,08
Difference d-13C (max.) all sugar fractions	LC-IRMS	d-13C‰	<= 2,50	1,79
Difference Protein-Honey (P-H)	AOAC 998.12	d-13C‰		+0,15
C4-sugar-content**	AOAC 998.12	%	<= 7,00	0,00

Accredited method

n.b.: not determinable n.n.: not detectable ($\leq 1\%$ (relative) related to all sugar fractions LC-IRMS); LC-IRMS is not an official method for F/G ratio

* related to all sugar fractions LC-IRMS; ** related to average $d_{13}C$ value of corn syrup of -9.7% vs. V-PDB Standard

*** EN 17958:2024; **** QSI-criterion authentic honey: all target values passed

^ Weighing, sample preparation, determination of carbon isotopes, for honey and protein

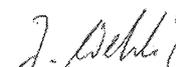
The expanded relative measurement uncertainty is 3% (coverage factor $k=2.58$; confidence interval 99%) without taking the sampling into account.

Conclusion:

The values determined in the course of the investigation carried out correspond to the QSI criteria for authentic honey and, in our opinion and according to current scientific knowledge, do not indicate the addition of foreign sugars. With regard to the investigated parameters the honey corresponds to the legal regulations (EU Honey directive 2001/110/EC, Annex 2 Part 1).

Version 0

Quality Services International GmbH


Jürgen Wehlitz
Test Manager
Food Chemist



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HRB 18842
Managing Director:
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