Test Report No. 210-1195483

QSI GmbH - Flughafendamm 9a - D-28199 Bremen

Medino d.o.o. Krnjevo
Ivan Grujic
Bulevar Oslobodjenja 29
11319 Krnjevo
SERBIA

Date: 17-Oct-2023

Customer No.:	**11802**	**Sample No.:**	**500723**
Product:	Honig/Honey		
Label: 101023			
Arrival Date:	16-Oct-2023	Start / End of Analysis:	16-Oct-2023 / 17-Oct-2023
Kind/Origin:	Serbia Polyflora	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

VA45275 (2023-08) **Antibiotics, Macrolides and Fluoroquinolones (31 substances, LOQ 2 ppb ^), Honey**

Parameter in µg/kg	MRL**	LOQ*	Result
>>>Macrolide Antibiotics			
Clindamycin		2	n.n.
Sum Erythromycin A***		2	n.n.
Josamycin		2	n.n.
Kitasamycin		2	n.n.
Lincomycin		2	n.n.
Oleandomycin		2	n.n.
Spiramycin		2	n.n.
Mirosamycin		2	n.n.
Tilmicosin		2	n.n.
Tylosin A		2	n.n.
Tylosin B		2	n.n.
>>>Fluoroquinolone Antibiotics			
Enrofloxacin		2	n.n.
Sarafloxacin		2	n.n.
Flumequine		2	n.n.
Difloxacin		2	n.n.
Ciprofloxacin		2	n.n.
Ofloxacin		2	n.n.
Oxolinic acid		2	n.n.
Sparfloxacin		2	n.n.
Danofloxacin		2	n.n.
Fleroxacin		2	n.n.
Norfloxacin		2	n.n.

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Amtsgericht Bremen
HRB 18842
Managing Director:
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BIC: HYVE DE MM488
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Deutsche Akkreditierungsstelle D-PL-14508-01-00

Enoxacin	2	n.n.
Marbofloxacin	2	n.n.
Nalidixic acid	2	n.n.
Cinoxacin	2	n.n.
Lomefloxacin	2	n.n.
Nadifloxacin	2	n.n.
Orbifloxacin	2	n.n.
Pazufloxacin	2	n.n.
Pefloxacin	2	n.n.
Pipemidic acid	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

*** contains Erythromycin A and Anhydroerythromycin A

^ Equivalent to FDA method fluoroquinole residues in honey, dated September 29, 2006

The expanded relative measurement uncertainty is 40 % (coverage factor k=2.58; confidence interval 99 %) without taking the sampling into account.

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).

Quality Services International GmbH Version 0

Anna Rehle
Test Manager
Food Chemist

This examination is the basis for special decision guidance.

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Date: 17-Oct-2023

Customer No.:	**11802**	**Sample No.:**	**500723**
Product:	Honig/Honey		
Label: 101023			
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Kind/Origin:	Serbia Polyflora	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

VA45282 (2023-08) **Antibiotics, Nitroimidazoles, LC-MS/MS (LOQ 0,5), Honey**

Parameter in µg/kg	MRL	LOQ*	Result
Metronidazole	***	0,5	n.n.
Dimetridazole	***	0,5	n.n.
Ronidazole	***	0,5	n.n.
Ipronidazole	**	0,5	n.n.
Ornidazole	**	0,5	n.n.
Tinidazole	**	0,5	n.n.
Methyl-Nitroimidazole acetic acid	**	0,5	n.n.
Hydroxy-Metronidazole	**	0,5	n.n.
Hydroxy-Ipronidazole	**	0,5	n.n.
Hydroxy-Dimetridazole	**	0,5	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
*** prohibited substance acc. EU-Regulation 37/2010 Annex Table 2

The expanded relative measurement uncertainty is 40 % (coverage factor k=2.58; confidence interval 99 %) without taking the sampling into account.

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).

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Test Report No. 210-1195482

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SERBIA

Date: 17-Oct-2023

Customer No.:	**11802**	**Sample No.:**	**500723**
Product:	Honig/Honey		
Label: 101023			
Arrival Date:	16-Oct-2023	Start / End of Analysis:	16-Oct-2023 / 17-Oct-2023
Kind/Origin:	Serbia Polyflora	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

VA45236 (2023-08) **Antibiotics, Sulfonamides and Trimethoprim, LC-MS/MS (LOQ 2ppb), Honey**

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

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Sulfisoxazole	2	n.n.
Succinylsulfathiazole	2	n.n.
Sulfaphenazole	2	n.n.
Sulfisozole	2	n.n.
Sulfisomidine	2	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

The expanded relative measurement uncertainty is 40 % (coverage factor k=2.58; confidence interval 99 %) without taking the sampling into account.

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).

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Test Report No. 210-1195480

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Date: 17-Oct-2023

Customer No.:	**11802**	**Sample No.:**	**500723**
Product:	Honig/Honey		
Label: 101023			
Arrival Date:	16-Oct-2023	Start / End of Analysis:	16-Oct-2023 / 17-Oct-2023
Kind/Origin:	Serbia Polyflora	Packaging:	Glas / glass
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

The expanded relative measurement uncertainty is 40% (coverage factor k=2.58; confidence interval 99 %) without taking the sampling into account.

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).

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Test Report No. 210-1195478

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SERBIA

Date: 17-Oct-2023

Customer No.:	**11802**	**Sample No.:**	**500723**
Product:	Honig/Honey		
Label: 101023			
Arrival Date:	16-Oct-2023	Start / End of Analysis:	16-Oct-2023 / 17-Oct-2023
Kind/Origin:	Serbia Polyflora	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

VA40500 (2023-10) **NMR - Honey-Profiling™, BRUKER evaluation + QSI interpretation, Authenticity and Quality**

Parameter	Result
Detection of foreign sugars	Nein/No
Quality	typisch/typical
Geographical origin*	-
Botanical origin*	-
Deviations/Remark	

Accredited method

The quantitative and chemometric evaluation of the NMR-Honey-Profiling™ Release 3.1.x is performed by Bruker BioSpin GmbH (Accreditation Certificate D-PL-19229-01-00) and the expert interpretation by QSI GmbH.
The quality is evaluated according to EU Honey Directive 2001/110 (esp. HMF, ethanol (> 400 mg/kg untypical/fermentation). If foreign sugars were detected, it is automatically evaluated as untypical.
* Statistical confirmation of origin is only made if we have information in this regard. It is based on the NMR database and does not necessarily agree with the results of a microscopic pollen analysis (reference method).

Conclusion:

Based on the current Honey-ProfilingTM database of Bruker BioSpin GmbH and the interpretation of QSI, the quality is typisch/typical for honey as defined by Annex II EU Honey Directive 2001/110.
Based on the current Honey-Profiling™ database of Bruker BioSpin GmbH and the interpretation of QSI, the NMR profile gives no indication of the presence of foreign sugars. The sample meets the requirements for authentic honey according to Annex I No. 1 of the EU Honey Directive 2001/110.

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DAkkS Deutsche Akkreditierungsstelle D-PL-14508-01-00

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Date: 18-Oct-2023

Customer No.:	**11802**	**Sample No.:**	**500723**
Product:	Honig/Honey		
Label: 101023			
Arrival Date:	16-Oct-2023	Start / End of Analysis:	16-Oct-2023 / 18-Oct-2023
Kind/Origin:	Serbia Polyflora	Packaging:	Glas / glass
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)

The expanded relative measurement uncertainty is 40 % (coverage factor k=2.58; confidence interval 99 %) without taking the sampling into account.

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).

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Test Report No. 210-1195485

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Date: 18-Oct-2023

Customer No.:	**11802**	**Sample No.:**	**500723**
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Label: 101023			
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Kind/Origin:	Serbia Polyflora	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

VA45301 (2023-01) **Antibiotics, Nitrofuran Metabolites, LC-MS/MS (LOQ 0,5 ppb), Honey**

Parameter in µg/kg	MRL**	LOQ*	Result
Semicarbazide (SEM, from Nitrofurazone)		0,5	n.n.
AOZ (from Furazolidone)		0,5	n.n.
AHD (from Nitrofurantoin)		0,5	n.n.
AMOZ (from Furaltadon)		0,5	n.n.
DNSH (from Nifursol)		0,5	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 = 0,5 µg/kg (Reference point for action according to EU Regulation 2019/1871)

The expanded relative measurement uncertainty is 40 % (coverage factor k=2.58; confidence interval 99 %) without taking the sampling into account.

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).

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Kind/Origin:	Serbia Polyflora	Packaging:	Glas / glass
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

The expanded relative measurement uncertainty is 40 % (coverage factor k=2.58; confidence interval 99 %) without taking the sampling into account.

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).

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Test Report No. 210-1195476

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Customer No.:	**11802**	**Sample No.:**	**500723**
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Kind/Origin:	Serbia Polyflora	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

VA161 (2022-12) **Tradeanalysis: Moisture, HMF, Diastase (Schade method), pH, Acidity, Honey-Directive**

Parameter	Method	Unit	Result
Moisture	ASU L40.00-2/1, 2019-07	%	17,7
HMF (Hydroxymethylfurfural)	ASU L 40.00-10/1, 2021-11	mg/kg	7,4
Diastase activity	ASU L 40.00-1, 2019-07 mod.^	DN Schade	18,9
pH-value	ASU L 40.00-6, 2011-06		3,9
Acidity*	ASU L 40.00-6, 2011-06	meq/kg	19,5
Accordance with EC Honey Directive			Honig/honey

Accredited method

* if acidity is < 17 (or < 10 in specific honey types), proline content will be determined automatically; n.n. = < LOQ 2,5 mg/kg (HMF)
^Weighing and amount of buffer; adaptation to Random Access Analyzer

The expanded relative measurement uncertainty is 0.8 % (Moisture); 9 % (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.

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Deutsche Akkreditierungsstelle D-PL-14508-01-00

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Julia Kapeluch
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This examination is the basis for special decision guidance.

The test results are exclusively related to the items tested for this sample in the above mentioned time frame for analysis. Method and measurement uncertainty details are available upon request. This report is allowed to be copied completely and unchanged but not in extracts. Furthermore, as well as for statements regarding conformity our General Terms and Conditions of Business are applicable.

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