

# Test Report No. 210-801928

QSI GmbH - Flughafendamm 9a - D-28199 Bremen

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

Date: 07-Oct-2021

<b>Customer No.:</b>	<b>11802</b>	<b>Sample No.:</b>	<b>353169</b>
Product:	Honig/Honey		
<b>Label: 170921</b>			
Arrival Date:	05-Oct-2021	Start / End of Analysis:	05-Oct-2021 / 07-Oct-2021
Kind/Origin:	Serbia Meadow	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

## VA40262 (2021-04) 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‰		-25,14
Honey (H)	AOAC 998.12	d-13C‰		-25,63
Fructose (F)	LC-IRMS	d-13C‰		-25,87
Glucose (G)	LC-IRMS	d-13C‰		-25,94
Disaccharides	LC-IRMS	d-13C‰		-26,59
Relative Percentage of Dissaccharides*	LC-IRMS	%		8,02
Trisaccharide	LC-IRMS	d-13C‰		-26,10
Relative Percentage of Trisaccharides*	LC-IRMS	%		2,38
Oligosaccharides	LC-IRMS	d-13C‰		n.b.
Relative Percentage of Oligosaccharides*	LC-IRMS	%		n.n.
F/G ratio	LC-IRMS			1,19
Difference d-13C Fructose-Glucose (F-G)	LC-IRMS	d-13C‰	- 1 to + 1	+0,07
Difference d-13C (max.) all sugar fractions	LC-IRMS	d-13C‰	<= 2,50	0,72
Difference Protein-Honey (P-H)	AOAC 998.12	d-13C‰		+0,49
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 d13C value of corn syrup of  $-9.7\text{‰}$  vs. V-PDB Standard

\*\*\* Apidologie for LC-IRMS (2008, Volume 39, Issue 5, pp 574-587); \*\*\*\* 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).

Quality Services International GmbH

Version 0

  
Mandy Weigel  
Test Manager  
Food Chemist



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# Test Report No. 210-801935

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 11319 Krnjevo  
 SERBIA

Date: 07-Oct-2021

<b>Customer No.:</b>	<b>11802</b>	<b>Sample No.:</b>	<b>353169</b>
Product:	Honig/Honey		
<b>Label: 170921</b>			
Arrival Date:	05-Oct-2021	Start / End of Analysis:	05-Oct-2021 / 07-Oct-2021
Kind/Origin:	Serbia Meadow	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

## VA86214 (2018-09) Chloramphenicol (CAP), LC-MS/MS, Honey (LOQ 0,1 ppb)

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

Accredited method

\* LOQ = limit of quantitation; n.n. = below LOQ MRPL (2003/181/EG) = 0,3 µg/kg

\*\* Prohibited substance acc. to 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).

Quality Services International GmbH

Version 0




Martin Linkogel  
 Test Manager  
 Food Chemist

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# Test Report No. 210-801932

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Medino d.o.o. Krnjevo  
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11319 Krnjevo  
SERBIA

Date: 08-Oct-2021

<b>Customer No.:</b>	<b>11802</b>	<b>Sample No.:</b>	<b>353169</b>
Product:	Honig/Honey		
<b>Label: 170921</b>			
Arrival Date:	05-Oct-2021	Start / End of Analysis:	05-Oct-2021 / 08-Oct-2021
Kind/Origin:	Serbia Meadow	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

**VA45275 (2018-03) Antibiotics, Macrolides and Fluoroquinolones (31 substances, LOQ 2 µg/kg ^), Honey**

Parameter in µg/kg	MRL**	LOQ*	Result
<b>&gt;&gt;&gt;Macrolide Antibiotics</b>			
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.
<b>&gt;&gt;&gt;Fluoroquinolone Antibiotics</b>			
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.

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

*M. Krieger*  
 Markus Krieger  
 Test Manager  
 Food Chemist



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# Test Report No. 210-801934

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 Ivan Grujic  
 Bulevar Oslobođenja 29  
 11319 Krnjevo  
 SERBIA

Date: 07-Oct-2021

<b>Customer No.:</b>	<b>11802</b>	<b>Sample No.:</b>	<b>353169</b>
Product:	Honig/Honey		
<b>Label: 170921</b>			
Arrival Date:	05-Oct-2021	Start / End of Analysis:	05-Oct-2021 / 07-Oct-2021
Kind/Origin:	Serbia Meadow	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

## VA45301 (2020-11) Antibiotics, Nitrofurans Metabolites, LC-MS/MS (LOQ 0,5 ppb), Honey

Parameter in µg/kg	MRL**	LOQ*	Result
Semicarbazide (from Nitrofurazone)		0,5	n.n.
AOZ (from Furazolidone)		0,5	n.n.
AHD (from Nitrofurantoin)		0,5	n.n.
AMAZ (from Furaltadon)		0,5	n.n.

Accredited method

\* LOQ = limit of quantitation; n.n. = below LOQ; MRPL (Minimum required performance limit according to 2003/181/EG) = 1 µg/kg

\*\* 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).

  
Mandy Weigel  
Test Manager  
Food Chemist



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# Test Report No. 210-801933

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

Date: 08-Oct-2021

<b>Customer No.:</b>	<b>11802</b>	<b>Sample No.:</b>	<b>353169</b>
Product:	Honig/Honey		
<b>Label: 170921</b>			
Arrival Date:	05-Oct-2021	Start / End of Analysis:	05-Oct-2021 / 08-Oct-2021
Kind/Origin:	Serbia Meadow	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

## VA45282 (2015-08) Antibiotics, Nitroimidazoles, LC-MS/MS (LOQ 0,5 - 2,5 ppb), Honey

Parameter in µg/kg	MRL**	LOQ*	Result
Metronidazole		0,5	n.n.
Dimetridazole		2,5	n.n.
Ronidazole		0,5	n.n.

Accredited method

\* LOQ = limit of quantitation, n.n. = below LOQ

\*\* Prohibited substance acc. to 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).



  
Markus Krieger  
Test Manager  
Food Chemist



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# Test Report No. 210-801936

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Medino d.o.o. Krnjevo  
Ivan Grujic  
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11319 Krnjevo  
SERBIA

Date: 12-Oct-2021

<b>Customer No.:</b>	<b>11802</b>	<b>Sample No.:</b>	<b>353169</b>
Product:	Honig/Honey		
<b>Label: 170921</b>			
Arrival Date:	05-Oct-2021	Start / End of Analysis:	05-Oct-2021 / 12-Oct-2021
Kind/Origin:	Serbia Meadow	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

**VA88500 (2021-04) Pesticide Residues, GC/MS/MS, LC/MS/MS-Screening (> 600 substances), foodstuff**

Parameter in mg/kg	Result
Pesticides, GC	n.n.
Pesticides, LC	Amitraz (amitraz including the metabolites containing the 2,4 -dimethylaniline moiety expressed as amitraz): n.n. (LOQ: 0,010; MRL: 0,20)
Remark:	

Subcontracting of test not accredited at QSI to laboratory within the Tentamus Group accredited for this test , bilacon GmbH

LOQ = Reporting limit, n.n. = below LOQ (according to attached parameter list)

MRL = Maximum residue limit, for Piperonyl-butoxide MRL from RHmV apply

combined procedure from the methods DFG S19 and QuEChERS, also according to AOAC method 2007.01

The expanded relative measurement uncertainty is 50 % (coverage factor k=2.58; confidence interval 99 %) without taking the sampling into account.

**Conclusion:**

With respect to our examination program the sample complies with current EC Regulation 396/2005.

  
Mandy Weigel  
Test Manager  
Food Chemist



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# Test Report No. 210-801927

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 11319 Krnjevo  
 SERBIA

Date: 08-Oct-2021

<b>Customer No.:</b>	<b>11802</b>	<b>Sample No.:</b>	<b>353169</b>
Product:	Honig/Honey		
<b>Label: 170921</b>			
Arrival Date:	05-Oct-2021	Start / End of Analysis:	05-Oct-2021 / 08-Oct-2021
Kind/Origin:	Serbia Meadow	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

## VA250 (2021-04) Pollenanalysis, botanical and geographical origin

Parameter (Method)	Unit	Result
Electr. conductivity(ASU L 40.00-5, 2003-12, mod <sup>^</sup> )	mS/cm	0,58
rel. frequency of pollen(ASU L 40.00-11, 2003-12, mod. <sup>^^</sup> )		
Predominant pollen 1	[%]	keine/none
Predominant pollen 2	[%]	keine/none
Secondary pollen 1	[%]	20 Ambrosia (Traubenkraut, Ragweed) (P)
Secondary pollen 2	[%]	keine/none
Secondary pollen 3	[%]	keine/none
Minor pollen 1	[%]	15 Pirus/Prunus (Obst, Fruit Blossom)
Minor pollen 2	[%]	10 Amorpha fruticosa (Bastardindigo, false Indigo); 06 Helianthus (Sonnenblumen, Sunflower) -Type; 04 Glycine max (Soja, Soy bean)
Minor pollen 3	[%]	keine/none
Identified pollentypes		Thymus (Thymian, Thyme) ; Zea mays (Mais, Maize) (P); Brassicaceae (Kreuzblütler, Crucifers); unidentified pollen-types; Cornus spec. (Hartriegel, Dogwood); Tilia (Linden) u.r.; Taraxacum (Löwenzahn, Dandelion) -Type u.r.; Artemisia (Beifuß, Mugwort) -Type (P); Lythraceae (Weiderichgewächse, Loosestrife); Asparagus (Spargel); Chenopodium (Gänsefuß, Black Weed) -Type (P); Filipendula (Mädesüß, Meadow Sweet) (P)
HD-Elements, fungal spores *		wenige/few
HD-Elements, waxwool *		keine/none

HD-Elements, waxstrings *	keine/none
Yeastcontent, estimation (VA 262)	ungewöhnlich stark erhöht/extremely increased
Starchgrains ** (VA 268)	gering/low (=<10%)
Other solid constituents	honigtypisch/honey-specific
Conclusion: Type of honey	Blüten/Blossom
<b>Conclusion: Botanical origin (main floral source) s. scientific publications e.g. IHC</b>	<b>Blossom, Honeydew</b>
Conclusion: Geographical origin	Southeasteuropa (Serbia possible)
Odour (ASU L 00.90-6, 2015-06, mod.^^^)	fruity
Flavour (ASU L 00.90-6, 2015-06, mod.^^^)	fruity
Colour (ASU L 00.90-6, 2015-06, mod.^^^)	trachttypisch/source-specific
Consistency (ASU L 00.90-6, 2015-06, mod.^^^)	flüssig/liquid

Accredited method

u.r. = underrepresented; ü.r. = overrepresented

\*HD = Honeydew; \*\* Starchgrains in % per 300 pollen- and starchgrains counted

^Weighing, ^^Adjustment in volume and temperature, ^^^Matrix: only Honey

MA = Methylanthranilate

**Conclusion:**

A declaration of the geographical origin Southeasteuropa (Serbia possible) is consistent with the above determined pollen spectrum given current scientific research.

Quality Services International GmbH

Version 0

  
  
**Markus Krieger**  
 Test Manager  
 Food Chemist

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# Test Report No. 210-801930

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 11319 Krnjevo  
 SERBIA

Date: 07-Oct-2021

<b>Customer No.:</b>	<b>11802</b>	<b>Sample No.:</b>	<b>353169</b>
Product:	Honig/Honey		
<b>Label: 170921</b>			
Arrival Date:	05-Oct-2021	Start / End of Analysis:	05-Oct-2021 / 07-Oct-2021
Kind/Origin:	Serbia Meadow	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

## VA45228 (2018-01) 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).



Mandy Weigel  
Test Manager  
Food Chemist

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# Test Report No. 210-801931

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 11319 Krnjevo  
 SERBIA

Date: 08-Oct-2021

<b>Customer No.:</b>	<b>11802</b>	<b>Sample No.:</b>	<b>353169</b>
Product:	Honig/Honey		
<b>Label: 170921</b>			
Arrival Date:	05-Oct-2021	Start / End of Analysis:	05-Oct-2021 / 08-Oct-2021
Kind/Origin:	Serbia Meadow	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

## VA45236 (2010-08) Antibiotics, Sulfonamides, Trimethoprim, LC-MS/MS (LOQ 2ppb), Honey

Parameter in µg/kg	MRL**	LOQ*	Result
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.
Sulfamer		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.
Sulfisoxazole		2	n.n.
Succinylsulfathiazole		2	n.n.

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Sulfaphenazole	2	n.n.
Sulfisozole	2	n.n.
Sulfisomidine	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).

Quality Services International GmbH

Version 0

*M. Krieger*  
 Markus Krieger  
 Test Manager  
 Food Chemist



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Date: 08-Oct-2021

<b>Customer No.:</b>	<b>11802</b>	<b>Sample No.:</b>	<b>353169</b>
Product:	Honig/Honey		
<b>Label: 170921</b>			
Arrival Date:	05-Oct-2021	Start / End of Analysis:	05-Oct-2021 / 08-Oct-2021
Kind/Origin:	Serbia Meadow	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

## VA45204 (2016-02) 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).

Quality Services International GmbH

Version 0

  
Markus Krieger  
Test Manager  
Food Chemist



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