

# Test Report No. 210-1165129

QSI GmbH - Flughafendamm 9a - D-28199 Bremen

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

Date: 28-Aug-2023

<b>Customer No.:</b>	<b>11802</b>	<b>Sample No.:</b>	<b>488727</b>
Product:	Honig/Honey		
<b>Label: 160823</b>			
Arrival Date:	23-Aug-2023	Start / End of Analysis:	23-Aug-2023 / 28-Aug-2023
Kind/Origin:	Serbia Acacia	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

## VA223 (2022-06) Pollenanalysis, Acacia (= Robinia) honey, compliance with EC Honey

### Directive

Parameter (Method)	Unit	Result
Electr.conductivity(ASU L 40.00-5, 2021-11, mod <sup>^</sup> )	mS/cm	0,17
Fructose (ASU L 40.00-7, 1999-11, mod. <sup>^^</sup> )	g/100g	41,2
Glucose (ASU L 40.00-7, 1999-11, mod. <sup>^^</sup> )	g/100g	27,0
F/G-ratio		1,53
Sum Fructose+Glucose	g/100g	68,2
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	%	41 Brassicaceae (Kreuzblütler, Crucifers)
Secondary pollen 2	%	26 Robinia pseudoacacia (Falsche Akazie, False Acacia) u.r.
Secondary pollen 3	%	keine/none
Minor pollen 1	%	05 Amorpha fruticosa (Bastardindigo, false Indigo)
Minor pollen 2	%	04 Salix sp. (Weiden, Willow)
Minor pollen 3	%	keine/none

Identified pollentypes	Brassica napus (Raps, Rape); Pirus/Prunus (Obst, Fruit Blossom); Helianthus annuus (Sonnenblume, Sunflower); Rumex (Ampfer, Sorrel) (P); Frangula alnus (Faulbaum, Black Alder); Poaceae (Süßgräser, Grasses) (P); Apiaceae (Doldenblütler, Umbellifers); Gleditsia (Gleditsie, Honey locust) -Type; Plantaginaceae (Wegerichgewächse, Plantain) (P); Tilia (Linden) u.r.; Cornus spec. (Hartriegel, Dogwood); Trifolium/Melilotus (Kleearten, Clover-Types); Trifolium repens (Weißklee, White Clover); unidentified pollen-types
HD-Elements, fungal spores *	wenige/few
HD-Elements, waxwool *	keine/none
HD-Elements, waxstrings *	keine/none
Yeastcontent, estimation (VA 262)	gering/low
Starchgrains ** (VA 268)	gering/low (= < 10%)
Other solid constituents	honigtypisch/honey-specific
Conclusion: Type of honey, HoneyDir., Art.1, Annex I	Blüten/Blossom
<b>Conclusion: Botanical origin, HoneyDirective., Art 2</b>	<b>Robinien (Akazien)/Robinia (Acacia)</b>
Conclusion: Geographical origin, HoneyDirective, Art. 2	Serbien mögl./Serbia possible
Odour (ASU L 00.90-6, 2015-06, mod.^^^)	trachttypisch/source-specific
Flavour (ASU L 00.90-6, 2015-06, mod.^^^)	trachttypisch/source-specific
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; k = counted without pollen from nectarless plants (P)

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

^Weighing, ^^Extraction, HPLC conditions, smaller scope,

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

The expanded relative measurement uncertainty is 10 % (electr. conductivity); 4 % (Fructose); 4 % (Glucose); 8 % (F/G) (coverage factor k=2.58; confidence interval 99 %) without taking the sampling into account.

**Conclusion:**

Based on the results determined within this analysis the honey can be classified as Blüten/Blossom honey according to the current EC-Directive for Honey Art.1, Annex I.

Based on the above determined characteristics a declaration as Robinien (Akazien)/Robinia (Acacia) honey is in accordance with Art. 2 (2b) of the current EC-Honey Directive.

A declaration of geographical origin Serbien mögl./Serbia possible is consistent with the above determined pollen spectrum given current scientific research.



Isabel Tipke  
Test Manager  
Food Chemist

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# Test Report No. 210-1165132

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Medino d.o.o. Krnjevo  
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11319 Krnjevo  
SERBIA

Date: 25-Aug-2023

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Product:	Honig/Honey		
<b>Label: 160823</b>			
Arrival Date:	23-Aug-2023	Start / End of Analysis:	23-Aug-2023 / 25-Aug-2023
Kind/Origin:	Serbia Acacia	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).

  
Jürgen Wehlitz  
Test Manager  
Food Chemist



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# Test Report No. 210-1165128

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## 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	%	17,9
HMF (Hydroxymethylfurfural)	ASU L 40.00-10/1, 2021-11	mg/kg	5,6
Diastase activity	ASU L 40.00-1, 2019-07 mod.^	DN Schade	18,3
pH-value	ASU L 40.00-6, 2011-06		3,9
Acidity*	ASU L 40.00-6, 2011-06	meq/kg	11,5
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.



Jürgen Wehlitz  
Test Manager  
Food Chemist

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Date: 28-Aug-2023

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## VA40262 (2022-09) 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‰		-24,66
Honey (H)	AOAC 998.12	d-13C‰		-25,02
Fructose (F)	LC-IRMS	d-13C‰		-24,87
Glucose (G)	LC-IRMS	d-13C‰		-24,77
Disaccharides	LC-IRMS	d-13C‰		-24,17
Relative Percentage of Dissaccharides*	LC-IRMS	%		9,61
Trisaccharide	LC-IRMS	d-13C‰		-23,90
Relative Percentage of Trisaccharides*	LC-IRMS	%		2,81
Oligosaccharides	LC-IRMS	d-13C‰		n.b.
Relative Percentage of Oligosaccharides*	LC-IRMS	%		n.n.
F/G ratio	LC-IRMS			1,48
Difference d-13C Fructose-Glucose (F-G)	LC-IRMS	d-13C‰	- 1 to + 1	-0,10
Difference d-13C (max.) all sugar fractions	LC-IRMS	d-13C‰	<= 2,50	0,97
Difference Protein-Honey (P-H)	AOAC 998.12	d-13C‰		+0,36
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



Jürgen Wehlitz  
Test Manager  
Food Chemist



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# Test Report No. 210-1165138

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11319 Krnjevo  
SERBIA

Date: 28-Aug-2023

<b>Customer No.:</b>	<b>11802</b>	<b>Sample No.:</b>	<b>488727</b>
Product:	Honig/Honey		
<b>Label: 160823</b>			
Arrival Date:	23-Aug-2023	Start / End of Analysis:	23-Aug-2023 / 28-Aug-2023
Kind/Origin:	Serbia Acacia	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).

*Isabel Tipke*



Isabel Tipke  
Test Manager  
Food Chemist

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SERBIA

Date: 25-Aug-2023

<b>Customer No.:</b>	<b>11802</b>	<b>Sample No.:</b>	<b>488727</b>
Product:	Honig/Honey		
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Arrival Date:	23-Aug-2023	Start / End of Analysis:	23-Aug-2023 / 25-Aug-2023
Kind/Origin:	Serbia Acacia	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
<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

*J. Wehlitz*  
 Jürgen Wehlitz  
 Test Manager  
 Food Chemist



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# Test Report No. 210-1165137

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 11319 Krnjevo  
 SERBIA

Date: 28-Aug-2023

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Kind/Origin:	Serbia Acacia	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.
AMAZ (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).



Isabel Tipke  
Test Manager  
Food Chemist

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## 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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## 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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## 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.
N4-Phthalylsulfathiazole		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.

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Sulfaclozine	2	n.n.
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).

Quality Services International GmbH

Version 0



Jürgen Wehlitz  
Test Manager  
Food Chemist



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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# Test Report No. 210-1165130

QSI GmbH - Flughafendamm 9a - D-28199 Bremen

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

Date: 25-Aug-2023

<b>Customer No.:</b>	<b>11802</b>	<b>Sample No.:</b>	<b>488727</b>
Product:	Honig/Honey		
<b>Label: 160823</b>			
Arrival Date:	23-Aug-2023	Start / End of Analysis:	23-Aug-2023 / 25-Aug-2023
Kind/Origin:	Serbia Acacia	Packaging:	Glas / glass
Seal:	ohne/without	Temp.:	RT

## VA40500 (2023-07) 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*	Acacia confirmed
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-Profiling™ 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.

  
Jürgen Wehlitz  
Test Manager  
Food Chemist



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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