

Supplementary material for :

Fluvalinate accumulation in the beehive environment and its effects on semen quality and gene expression of drones under field conditions

Marek Ratvaj^a, Martin Staroň^b, Rastislav Sabo^c, Vladimíra Kňazovická^b, Ivana Cingel'ová Maruščáková^a, Dagmar Mudroňová^a, Marián Maďar^a, Dana Staroňová^b, Lucia Sabová^c, Tomáš Majchrák^c

Correspondence: marek.ratvaj@uvlf.sk

^a Department of Microbiology and Immunology, University of Veterinary Medicine and Pharmacy in Košice, Komenského 73, 041 81 Košice, Slovak Republic;

^b National Agricultural and Food Centre-Research Institute for Animal Production, Institute of Apiculture Liptovský Hrádok, Gašperíkova 599, 033 80 Liptovský Hrádok, Slovak Republic;

^c Department of Pharmacology and Toxicology, University of Veterinary Medicine and Pharmacy in Košice, Komenského 73, 041 81 Košice, Slovak Republic;

Analytical report AR-20-SZ-042778-02



Testing laboratory:

Eurofins Food Testing Slovakia s.r.o.
Komjatická 73, 940 02 Nové Zámky
IČO: 52 601 714
tel.: +421 908810030, +421 911810531
MarketingNZ@eurofins.sk, www.eurofins.sk

Customer:

Univerzita veterinárneho lekárstva a farmácie v Košiciach
Komenského 68/73
041 81 Košice
SLOVAKIA

Date of Sample Receipt: 03.08.2020

Date of Testing: 03.08.2020 - 13.08.2020

Issue date: 25.09.2020

Information about Sampling:

Sampler

customer

Sample information:

147-2020-00052307

Sample description:

Med

Sample Reference:

1

Pesticides

Parameter	Unit	Allowed Value	Measured Value	Uncertainty*	Method	Testing method /Process variance	E	TT
HR702: Pesticides in honey by LC-MS/MS								
2,4'-Formoxylidid (Amitraz Metabolite)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Acetamiprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (as 2,4-Dimethylaniline)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (sum)	mg/kg	-	---	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Boscalid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
BTS 27271	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Thiacloprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
HR701: Pesticides in honey by GC-NCI-MS								
Coumaphos	mg/kg	-	< 0,002	-	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
tau-Fluvalinate	mg/kg	max 0,05	0,010	0,005	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	S	SA

JUDGEMENT

Results of measurements comply with Commission Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC in its valid version.

Warning: Test results cannot be substituted by any inspection or certification of products.

Notes:	E - evaluation	TT - type of test
	S - satisfied	A - accredited test executed at the own test laboratory
	NS - not satisfied	N - non accredited test executed at the own test laboratory
	(A) - accredited sampling	SA - accredited test executed under the subcontract
	(SA) - accredited sampling executed under the subcontract	SN - unaccredited test executed under the subcontract
	SPP - Standard operation procedure	(TM) - testing outside the laboratory at the customer
	ND - not detected by given method	
	CFU - Colony forming unit	
	NM - necessary quantity	
	m - the highest allowed value at the case of one sample	
	M, c - "M" highest allowed value for the number "c" at the case of 5 sample's evaluation	
	* - uncertainty determined by extension coefficient k=2 (with probability of 95%) does not include the uncertainty of sampling.	
	- uncertainty given in % reflects the uncertainty from the result of measurement.	
Disclaimer:	Laboratory is a disclaimer when the information is supplied by the customer and can affect the validity of results.	
	If the sample has been provided by the customer, the results refer to the sample as it was received.	
	Gauges and measuring equipment used for testing were calibrated or attested in accordance with the valid metrological instructions.	
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	The result given in this Test Certificate and marked as non accredited test shall not be a subject of accreditation.	
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Responsible for correctness:

Worked out by: Ladislav Nagy

No. of document: 202092583810909


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Eurofins Food Testing Slovakia s.r.o.
 Komjatická 73, 940 02 Nové Zámky
 IČO: 52 601 714 DIČ: 2121096252
 IČ DPH: SK2121096252 ①

Test Certificate approved by

Andrea Bereková
Specialist



Analytical report AR-20-SZ-042779-04



Testing laboratory:

Eurofins Food Testing Slovakia s.r.o.
Komjatická 73, 940 02 Nové Zámky
IČO: 52 601 714
tel.: +421 908810030, +421 911810531
MarketingNZ@eurofins.sk, www.eurofins.sk

Customer:

Univerzita veterinárneho lekárstva a farmácie v Ko
Komenského 68/73
041 81 Košice
SLOVAKIA

Date of Sample Receipt: 03.08.2020

Date of Testing: 03.08.2020 - 13.08.2020

Issue date: 02.11.2020

Information about Sampling:

Sampler: customer

Sample information: 147-2020-00052308

Sample description: Med

Sample Reference: 2

Pesticides

Parameter	Unit	Allowed Value	Measured Value	Uncertainty of measurement*	Method	Testing method /Process variance	E	TT
HR702: Pesticides in honey by LC-MS/MS								
2,4'-Formoxylidid (Amitraz Metabolite)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Acetamiprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (as 2,4-Dimethylaniline)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (sum)	mg/kg	-	---	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Boscalid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
BTS 27271	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Thiacloprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
HR701: Pesticides in honey by GC-NCI-MS								
Coumaphos	mg/kg	-	< 0,002	-	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
tau-Fluvalinate	mg/kg	max 0,05	0,12	0,06	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	NS	SA

JUDGEMENT

Result of measurement - tau - fluvalinate does not comply with requirements given in Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC in its valid version.

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(SA) - accredited sampling executed under the subcontract	SN - unaccredited test executed under the subcontract
SPP - Standard operation procedure	(TM) - testing outside the laboratory at the customer
ND - not detected by given method	
CFU - Colony forming unit	
NM - necessary quantity	
m - the highest allowed value at the case of one sample	
M, c - "M" highest allowed value for the number "c" at the case of 5 sample's evaluation	
* - uncertainty determined by extension coefficient k=2 (with probability of 95%) does not include the uncertainty of sampling.	
- uncertainty given in % reflects the uncertainty from the result of measurement.	

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Responsible for correctness:

Worked out by: Ladislav Nagy

No. of document: 202011210930654

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 Andrea Bereková
 Specialist

 Food Testing
Eurofins Food Testing Slovakia s.r.o.
 Komjatická 73, 940 02 Nové Zámky
 IČO: 52 601 714 DIČ: 2121096252
 IČ DPH: SK2121096252 ①



Analytical report AR-20-SZ-042780-04



Testing laboratory:

Eurofins Food Testing Slovakia s.r.o.
Komjatická 73, 940 02 Nové Zámky
IČO: 52 601 714
tel.: +421 908810030, +421 911810531
MarketingNZ@eurofins.sk, www.eurofins.sk

Customer:

Univerzita veterinárneho lekárstva a farmácie v Ko
Komenského 68/73
041 81 Košice
SLOVAKIA

Date of Sample Receipt: 03.08.2020

Date of Testing: 03.08.2020 - 13.08.2020

Issue date: 02.11.2020

Information about Sampling:

Sampler: customer

Sample information: 147-2020-00052309

Sample description: Med

Sample Reference: 3

Pesticides

Parameter	Unit	Allowed Value	Measured Value	Uncertainty of measurement*	Method	Testing method /Process variance	E	TT
HR702: Pesticides in honey by LC-MS/MS								
2,4'-Formoxylidid (Amitraz Metabolite)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Acetamiprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (as 2,4-Dimethylaniline)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (sum)	mg/kg	-	---	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Boscalid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
BTS 27271	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Thiacloprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
HR701: Pesticides in honey by GC-NCI-MS								
Coumaphos	mg/kg	-	< 0,002	-	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
tau-Fluvalinate	mg/kg	max 0,05	0,061	0,0305	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	S	SA

JUDGEMENT

Results of measurements comply with requirements given in Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC in its valid version considering measurement uncertainty of tau - fluvalinate +/- 50% according to SANTE/11813/2017.

Warning: Test results cannot be substituted by any inspection or certification of products.

Notes:

E - evaluation	TT - type of test
S - satisfied	A - accredited test executed at the own test laboratory
NS - not satisfied	N - non accredited test executed at the own test laboratory
(A) - accredited sampling	SA - accredited test executed under the subcontract
(SA) - accredited sampling executed under the subcontract	SN - unaccredited test executed under the subcontract
SPP - Standard operation procedure	(TM) - testing outside the laboratory at the customer
ND - not detected by given method	
CFU - Colony forming unit	
NM - necessary quantity	
m - the highest allowed value at the case of one sample	
M, c - "M" highest allowed value for the number "c" at the case of 5 sample's evaluation	
* - uncertainty determined by extension coefficient $k=2$ (with probability of 95%) does not include the uncertainty of sampling.	
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Responsible for correctness:

Worked out by: Ladislav Nagy

No. of document: 20201121098117

Test Certificate approved by

Andrea Bereková
Specialist

 **eurofins** | Food Testing
Eurofins Food Testing Slovakia s.r.o.
 Komjatická 73, 940 02 Nové Zámky
 IČO: 52 601 714 DIČ: 2121096252
 IČ DPH: SK2121096252 



Analytical report AR-20-SZ-042781-02



Testing laboratory:

Eurofins Food Testing Slovakia s.r.o.
Komjatická 73, 940 02 Nové Zámky
IČO: 52 601 714
tel.: +421 908810030, +421 911810531
MarketingNZ@eurofins.sk, www.eurofins.sk

Customer:

Univerzita veterinárneho lekárstva a farmácie v Košiciach
Komenského 68/73
041 81 Košice
SLOVAKIA

Date of Sample Receipt: 03.08.2020

Date of Testing: 03.08.2020 - 13.08.2020

Issue date: 25.09.2020

Information about Sampling:

Sampler

customer

Sample information:

147-2020-00052310

Sample description:

Med

Sample Reference:

4

Pesticides

Parameter	Unit	Allowed Value	Measured Value	Uncertainty*	Method	Testing method /Process variance	E	TT
HR702: Pesticides in honey by LC-MS/MS								
2,4'-Formoxylidid (Amitraz Metabolite)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Acetamiprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (as 2,4-Dimethylaniline)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (sum)	mg/kg	-	---	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Boscalid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
BTS 27271	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Thiacloprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
HR701: Pesticides in honey by GC-NCI-MS								
Coumaphos	mg/kg	-	< 0,002	-	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
tau-Fluvalinate	mg/kg	max 0,05	0,013	0,0065	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	S	SA

JUDGEMENT

Results of measurements comply with Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC in its valid version.

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Responsible for correctness:

Worked out by: Ladislav Nagy

No. of document: 202092583752720

Test Certificate approved by

 Andrea Bereková
 Specialist

 Food Testing
Eurofins Food Testing Slovakia s.r.o.
 Komjatická 73, 940 02 Nové Zámky
 IČO: 52 601 714 DIČ: 2121096252
 IČ DPH: SK2121096252 ①



Analytical report AR-20-SZ-042782-02



Testing laboratory:

Eurofins Food Testing Slovakia s.r.o.
Komjatická 73, 940 02 Nové Zámky
IČO: 52 601 714
tel.: +421 908810030, +421 911810531
MarketingNZ@eurofins.sk, www.eurofins.sk

Customer:

Univerzita veterinárneho lekárstva a farmácie v Košiciach
Komenského 68/73
041 81 Košice
SLOVAKIA

Date of Sample Receipt: 03.08.2020

Date of Testing: 03.08.2020 - 13.08.2020

Issue date: 25.09.2020

Information about Sampling:

Sampler

customer

Sample information:

147-2020-00052311

Sample description:

Med

Sample Reference:

5

Pesticides

Parameter	Unit	Allowed Value	Measured Value	Uncertainty*	Method	Testing method /Process variance	E	TT
HR702: Pesticides in honey by LC-MS/MS								
2,4'-Formoxylidid (Amitraz Metabolite)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Acetamiprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (as 2,4-Dimethylaniline)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (sum)	mg/kg	-	---	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Boscalid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
BTS 27271	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Thiacloprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
HR701: Pesticides in honey by GC-NCI-MS								
Coumaphos	mg/kg	-	< 0,002	-	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
tau-Fluvalinate	mg/kg	max 0,05	0,005	0,0025	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	S	SA

JUDGEMENT

Results of measurements comply with Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC in its valid version.

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Responsible for correctness:

Worked out by: Ladislav Nagy

No. of document: 202092583746372

 **eurofins** | Food Testing
Eurofins Food Testing Slovakia s.r.o.
 Komjatická 73, 940 02 Nové Zámky
 IČO: 52 601 714 DIČ: 2121096252
 IČ DPH: SK2121096252 ①

Test Certificate approved by

Andrea Bereková
Specialist



Analytical report AR-20-SZ-042783-02



Testing laboratory:

Eurofins Food Testing Slovakia s.r.o.
Komjatická 73, 940 02 Nové Zámky
IČO: 52 601 714
tel.: +421 908810030, +421 911810531
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Customer:

Univerzita veterinárneho lekárstva a farmácie v Košiciach
Komenského 68/73
041 81 Košice
SLOVAKIA

Date of Sample Receipt: 03.08.2020

Date of Testing: 03.08.2020 - 13.08.2020

Issue date: 25.09.2020

Information about Sampling:

Sampler

customer

Sample information:

147-2020-00052312

Sample description:

Med

Sample Reference:

6

Pesticides

Parameter	Unit	Allowed Value	Measured Value	Uncertainty*	Method	Testing method /Process variance	E	TT
HR702: Pesticides in honey by LC-MS/MS								
2,4'-Formoxylidid (Amitraz Metabolite)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Acetamiprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (as 2,4-Dimethylaniline)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (sum)	mg/kg	-	---	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Boscalid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
BTS 27271	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Thiacloprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
HR701: Pesticides in honey by GC-NCI-MS								
Coumaphos	mg/kg	-	< 0,002	-	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
tau-Fluvalinate	mg/kg	max 0,05	0,007	0,0035	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	S	SA

JUDGEMENT

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Warning: Test results cannot be substituted by any inspection or certification of products.

Notes:

E - evaluation	TT - type of test
S - satisfied	A - accredited test executed at the own test laboratory
NS - not satisfied	N - non accredited test executed at the own test laboratory
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M, c - "M" highest allowed value for the number "c" at the case of 5 sample's evaluation	
* - uncertainty determined by extension coefficient k=2 (with probability of 95%) does not include the uncertainty of sampling.	
- uncertainty given in % reflects the uncertainty from the result of measurement.	

Disclaimer:

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Responsible for correctness:

Worked out by: Ladislav Nagy

No. of document: 202092583740361

Test Certificate approved by

 Andrea Bereková
 Specialist

 Food Testing
Eurofins Food Testing Slovakia s.r.o.
 Komjatická 73, 940 02 Nové Zámky
 IČO: 52 601 714 DIČ: 2121096252
 IČ DPH: SK2121096252 ①



Analytical report AR-20-SZ-042784-04



Testing laboratory:

Eurofins Food Testing Slovakia s.r.o.
Komjatická 73, 940 02 Nové Zámky
IČO: 52 601 714
tel.: +421 908810030, +421 911810531
MarketingNZ@eurofins.sk, www.eurofins.sk

Customer:

Univerzita veterinárneho lekárstva a farmácie v Ko
Komenského 68/73
041 81 Košice
SLOVAKIA

Date of Sample Receipt: 03.08.2020

Date of Testing: 03.08.2020 - 13.08.2020

Issue date: 02.11.2020

Information about Sampling:

Sampler: customer

Sample information: 147-2020-00052313

Sample description: Med

Sample Reference: 7

Pesticides

Parameter	Unit	Allowed Value	Measured Value	Uncertainty of measurement*	Method	Testing method /Process variance	E	TT
HR702: Pesticides in honey by LC-MS/MS								
2,4'-Formoxylidid (Amitraz Metabolite)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Acetamiprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (as 2,4-Dimethylaniline)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (sum)	mg/kg	-	---	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Boscalid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
BTS 27271	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Thiacloprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
HR701: Pesticides in honey by GC-NCI-MS								
Coumaphos	mg/kg	-	< 0,002	-	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
tau-Fluvalinate	mg/kg	max 0,05	0,086	0,043	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	S	SA

JUDGEMENT

Results of measurements comply with requirements given in Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC in its valid version considering measurement uncertainty of tau - fluvalinate +/- 50% according to SANTE/11813/2017.

Warning: Test results cannot be substituted by any inspection or certification of products.

Notes:	E - evaluation	TT - type of test
	S - satisfied	A - accredited test executed at the own test laboratory
	NS - not satisfied	N - non accredited test executed at the own test laboratory
	(A) - accredited sampling	SA - accredited test executed under the subcontract
	(SA) - accredited sampling executed under the subcontract	SN - unaccredited test executed under the subcontract
	SPP - Standard operation procedure	(TM) - testing outside the laboratory at the customer
	ND - not detected by given method	
	CFU - Colony forming unit	
	NM - necessary quantity	
	m - the highest allowed value at the case of one sample	
	M, c - "M" highest allowed value for the number "c" at the case of 5 sample's evaluation	
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Responsible for correctness:

Worked out by: Ladislav Nagy

No. of document: 202011210915421

 Food Testing
Eurofins Food Testing Slovakia s.r.o.
 Komjatická 73, 940 02 Nové Zámky
 IČO: 52 601 714 DIČ: 2121096252
 IČ DPH: SK2121096252 ^①

Test Certificate approved by

Andrea Bereková
Specialist



Analytical report AR-20-SZ-042785-02



Testing laboratory:

Eurofins Food Testing Slovakia s.r.o.
Komjatická 73, 940 02 Nové Zámky
IČO: 52 601 714
tel.: +421 908810030, +421 911810531
MarketingNZ@eurofins.sk, www.eurofins.sk

Customer:

Univerzita veterinárneho lekárstva a farmácie v Košiciach
Komenského 68/73
041 81 Košice
SLOVAKIA

Date of Sample Receipt: 03.08.2020

Date of Testing: 03.08.2020 - 13.08.2020

Issue date: 25.09.2020

Information about Sampling:

Sampler

customer

Sample information:

147-2020-00052314

Sample description:

Med

Sample Reference:

8

Pesticides

Parameter	Unit	Allowed Value	Measured Value	Uncertainty*	Method	Testing method /Process variance	E	TT
HR702: Pesticides in honey by LC-MS/MS								
2,4'-Formoxylidid (Amitraz Metabolite)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Acetamiprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (as 2,4-Dimethylaniline)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (sum)	mg/kg	-	---	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Boscalid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
BTS 27271	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Thiacloprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
HR701: Pesticides in honey by GC-NCI-MS								
Coumaphos	mg/kg	-	< 0,002	-	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
tau-Fluvalinate	mg/kg	max 0,05	0,006	0,003	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	S	SA

JUDGEMENT

Results of measurements comply with Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC in its valid version.

Warning: Test results cannot be substituted by any inspection or certification of products.

Notes:

E - evaluation	TT - type of test
S - satisfied	A - accredited test executed at the own test laboratory
NS - not satisfied	N - non accredited test executed at the own test laboratory
(A) - accredited sampling	SA - accredited test executed under the subcontract
(SA) - accredited sampling executed under the subcontract	SN - unaccredited test executed under the subcontract
SPP - Standard operation procedure	(TM) - testing outside the laboratory at the customer
ND - not detected by given method	
CFU - Colony forming unit	
NM - necessary quantity	
m - the highest allowed value at the case of one sample	
M, c - "M" highest allowed value for the number "c" at the case of 5 sample's evaluation	
* - uncertainty determined by extension coefficient k=2 (with probability of 95%) does not include the uncertainty of sampling.	
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Responsible for correctness:

Worked out by: Ladislav Nagy

No. of document: 202092583729210

Test Certificate approved by

 Andrea Bereková
 Specialist

 **eurofins** | Food Testing
Eurofins Food Testing Slovakia s.r.o.
 Komjatická 73, 940 02 Nové Zámky
 IČO: 52 601 714 DIČ: 2121096252
 IČ DPH: SK2121096252 ①



Analytical report AR-20-SZ-042786-02



Testing laboratory:

Eurofins Food Testing Slovakia s.r.o.
Komjatická 73, 940 02 Nové Zámky
IČO: 52 601 714
tel.: +421 908810030, +421 911810531
MarketingNZ@eurofins.sk, www.eurofins.sk

Customer:

Univerzita veterinárneho lekárstva a farmácie v Košiciach
Komenského 68/73
041 81 Košice
SLOVAKIA

Date of Sample Receipt: 03.08.2020

Date of Testing: 03.08.2020 - 13.08.2020

Issue date: 25.09.2020

Information about Sampling:

Sampler

customer

Sample information:

147-2020-00052315

Sample description:

Med

Sample Reference:

9

Pesticides

Parameter	Unit	Allowed Value	Measured Value	Uncertainty*	Method	Testing method /Process variance	E	TT
HR702: Pesticides in honey by LC-MS/MS								
2,4'-Formoxylidid (Amitraz Metabolite)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Acetamiprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (as 2,4-Dimethylaniline)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (sum)	mg/kg	-	---	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Boscalid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
BTS 27271	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Thiacloprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
HR701: Pesticides in honey by GC-NCI-MS								
Coumaphos	mg/kg	-	< 0,002	-	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
tau-Fluvalinate	mg/kg	max 0,05	0,002	0,001	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	S	SA

JUDGEMENT

Results of measurements comply with Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC in its valid version.

Warning: Test results cannot be substituted by any inspection or certification of products.

Notes:

E - evaluation
 S - satisfied
 NS - not satisfied
 (A) - accredited sampling
 (SA) - accredited sampling executed under the subcontract
 SPP - Standard operation procedure
 ND - not detected by given method
 CFU - Colony forming unit
 NM - necessary quantity
 m - the highest allowed value at the case of one sample
 M, c - "M" highest allowed value for the number "c" at the case of 5 sample's evaluation
 * - uncertainty determined by extension coefficient $k=2$ (with probability of 95%) does not include the uncertainty of sampling.
 - uncertainty given in % reflects the uncertainty from the result of measurement.

TT - type of test

A - accredited test executed at the own test laboratory
 N - non accredited test executed at the own test laboratory
 SA - accredited test executed under the subcontract
 SN - unaccredited test executed under the subcontract
 (TM) - testing outside the laboratory at the customer

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Responsible for correctness:

Worked out by: Ladislav Nagy

No. of document: 202092583723773

 **eurofins** | Food Testing
Eurofins Food Testing Slovakia s.r.o.
 Komjatická 73, 940 02 Nové Zámky
 IČO: 52 601 714 DIČ: 2121096252
 IČ DPH: SK2121096252 ①

Test Certificate approved by

Andrea Bereková
 Specialist



Analytical report AR-20-SZ-042787-02



Testing laboratory:

Eurofins Food Testing Slovakia s.r.o.
Komjatická 73, 940 02 Nové Zámky
IČO: 52 601 714
tel.: +421 908810030, +421 911810531
MarketingNZ@eurofins.sk, www.eurofins.sk

Customer:

Univerzita veterinárneho lekárstva a farmácie v Košiciach
Komenského 68/73
041 81 Košice
SLOVAKIA

Date of Sample Receipt: 03.08.2020

Date of Testing: 03.08.2020 - 13.08.2020

Issue date: 25.09.2020

Information about Sampling:

Sampler

customer

Sample information:

147-2020-00052316

Sample description:

Med

Sample Reference:

10

Pesticides

Parameter	Unit	Allowed Value	Measured Value	Uncertainty*	Method	Testing method /Process variance	E	TT
HR702: Pesticides in honey by LC-MS/MS								
2,4'-Formoxylidid (Amitraz Metabolite)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Acetamiprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (as 2,4-Dimethylaniline)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (sum)	mg/kg	-	---	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Boscalid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
BTS 27271	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Thiacloprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
HR701: Pesticides in honey by GC-NCI-MS								
Coumaphos	mg/kg	-	< 0,002	-	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
tau-Fluvalinate	mg/kg	max 0,05	0,017	0,0085	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	S	SA

JUDGEMENT

Results of measurements comply with Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC in its valid version.

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	NS - not satisfied	N - non accredited test executed at the own test laboratory
	(A) - accredited sampling	SA - accredited test executed under the subcontract
	(SA) - accredited sampling executed under the subcontract	SN - unaccredited test executed under the subcontract
	SPP - Standard operation procedure	(TM) - testing outside the laboratory at the customer
	ND - not detected by given method	
	CFU - Colony forming unit	
	NM - necessary quantity	
	m - the highest allowed value at the case of one sample	
	M, c - "M" highest allowed value for the number "c" at the case of 5 sample's evaluation	
	* - uncertainty determined by extension coefficient k=2 (with probability of 95%) does not include the uncertainty of sampling.	
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Responsible for correctness:

Worked out by: Ladislav Nagy

No. of document: 202092583717449

 Food Testing
Eurofins Food Testing Slovakia s.r.o.
 Komjatická 73, 940 02 Nové Zámky
 IČO: 52 601 714 DIČ: 2121096252
 IČ DPH: SK2121096252 ①

Test Certificate approved by

Andrea Bereková
Specialist



Analytical report AR-20-SZ-042788-04



Testing laboratory:

Eurofins Food Testing Slovakia s.r.o.
Komjatická 73, 940 02 Nové Zámky
IČO: 52 601 714
tel.: +421 908810030, +421 911810531
MarketingNZ@eurofins.sk, www.eurofins.sk

Customer:

Univerzita veterinárneho lekárstva a farmácie v Ko
Komenského 68/73
041 81 Košice
SLOVAKIA

Date of Sample Receipt: 03.08.2020

Date of Testing: 03.08.2020 - 13.08.2020

Issue date: 02.11.2020

Information about Sampling:

Sampler: customer

Sample information: 147-2020-00052317

Sample description: Med

Sample Reference: 11

Pesticides

Parameter	Unit	Allowed Value	Measured Value	Uncertainty of measurement*	Method	Testing method /Process variance	E	TT
HR702: Pesticides in honey by LC-MS/MS								
2,4'-Formoxylidid (Amitraz Metabolite)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	S	SA
Acetamiprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (as 2,4-Dimethylaniline)	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Amitraz (sum)	mg/kg	-	---	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Boscalid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
BTS 27271	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
Thiacloprid	mg/kg	-	< 0,002	-	LC-MS/MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
HR701: Pesticides in honey by GC-NCI-MS								
Coumaphos	mg/kg	-	< 0,002	-	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	-	SA
tau-Fluvalinate	mg/kg	max 0,05	0,087	0,0435	GC-NCI-MS	DIN EN 15662:2018-07, SPG-14.141	S	SA

JUDGEMENT

Results of measurements comply with requirements given in Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC in its valid version considering measurement uncertainty of tau - fluvalinate +/- 50% according to SANTE/11813/2017.

Warning: Test results cannot be substituted by any inspection or certification of products.

Notes:

E - evaluation	TT - type of test
S - satisfied	A - accredited test executed at the own test laboratory
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(SA) - accredited sampling executed under the subcontract	SN - unaccredited test executed under the subcontract
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Responsible for correctness:

Worked out by: Ladislav Nagy

No. of document: 202011210923691

Test Certificate approved by

 Andrea Bereková
 Specialist

 Food Testing
Eurofins Food Testing Slovakia s.r.o.
 Komjatická 73, 940 02 Nové Zámky
 IČO: 52 601 714 DIČ: 2121096252
 IČ DPH: SK2121096252 ^①

