

Client:



Highlands Honeybee Travel Co., Ltd.
568 Vo Van Kiet St.
630000 Buon Ma Thuot
Vietnam

E-Mail: Highlands Honeybee Travel

Our reference no.	: PI2503130049		
Product	: Honey		
Sample description / Batch	: HC.GL 12-25		
Sample received on / transported by	: 13.03.2025 via Parcel service	Seal	: none
Sample temp. when received / stored	: RT	Sampling	: Client
Packaging / Quantity	: Plastic container / ca. 290 g	Start / End of analysis	: 13.03.2025 / 17.03.2025

ANALYSIS REQUESTED: Chloramphenicol by LC-MS/MS (101024)

Parameter	Result	Unit	Method
Chloramphenicol	n.d.	µg/kg	PM DE01.022:2020-07 (a) ¹
n.d. - not detected < limit of quantification 0.1 µg/kg Chloramphenicol < RPA of 0.15 µg/kg (Regulation (EU) 2019/1871)			
(a) : accredited method. (na) : not accredited method. (1) Inhouse procedure (07/2020) This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

Interpretation:

Regarding the examined parameters, the indicated limits of quantification and the reference point for action (RPA) of 0.15 µg/kg for chloramphenicol the sample corresponds to the legal regulations (Regulation (EC) 470/2009 and Regulation (EU) 37/2010 in conjunction with Regulation (EU) 2019/1871).



Hauke Zinow
 Responsible Scientist, Certified Food Chemist

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ANALYSIS REQUESTED: Nitrofurane Metabolites by LC-MS/MS (101027)

Parameter	Result	Unit	Method
AOZ	n.d.	µg/kg	PM DE01.031:2024-10 (a) ¹
AMOZ	n.d.	µg/kg	PM DE01.031:2024-10 (a) ¹
AHD	n.d.	µg/kg	PM DE01.031:2024-10 (a) ¹
SEM	n.d.	µg/kg	PM DE01.031:2024-10 (a) ¹
n.d. - not detected < 0.2 µg/kg (AOZ, AMOZ); < 0.5 µg/kg (AHD, SEM) RPA (Reference Point for Action) for nitrofurane metabolites = 0.5 µg/kg according to Decision 2019/1871/EC			
(a) : accredited method. (na) : not accredited method. (1) Inhouse procedure This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

Interpretation:

Regarding the examined parameters, the mentioned limit of detection and the RPA of 0.5 µg/kg for nitrofurane metabolites the sample corresponds to the legal regulations (Regulation (EC) 470/2009 in conjunction with Regulation (EU) 37/2010) and corresponds to Decision 2019/1871/EC.



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ANALYSIS REQUESTED: Bee Treatment Agents by Gas Chromatography-Mass Spectrometry (101128)

Parameter	Result	Unit	Method
Coumaphos	n.d.	mg/kg	PM DE01.051:2022-04 (a) ¹
tau-Fluvalinate	n.d.	mg/kg	PM DE01.051:2022-04 (a) ¹
n.d. - not detected < limit of quantification 0.01 mg/kg			
(a) : accredited method. (na) : not accredited method. (1) Inhouse procedure			
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Interpretation:

Regarding the examined parameters, the mentioned limits of quantification and considering an expanded measurement uncertainty of 50 % (SANTE/11312/2021), the sample corresponds to the EU-Regulation 396/2005 as well as Regulation (EC) 470/2009 in conjunction with Regulation (EU) 37/2010.



Harald König
 Assistant Testing Supervisor

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ANALYSIS REQUESTED: Pesticides and Bee Treatment Agents by GC-MS/MS and LC-MS/MS (101148)

Parameter	Result	Unit	Method
Amitraz (incl. Metabolites)	0.016	mg/kg	(a) ¹
Propargite	0.011	mg/kg	(a) ¹
other Pesticides	n.d.	mg/kg	(a) ¹
n.d. - not detected < limits of quantification List of analytes and limits of quantification: see pdf-file attached to the electronically submitted analysis report			
(a) : accredited method. (na) : not accredited method. (1) ASU § 64 LFGB L 00.00-115:2018-10 (DIN EN 15662) This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

Interpretation:

Regarding the examined parameters, the mentioned limits of quantification and considering an expanded measurement uncertainty of 50 % (SANTE/11312/2021), the sample corresponds to the EU-Regulation 396/2005 as well as Regulation (EC) 470/2009 in conjunction with Regulation (EU) 37/2010.



Swantje Puls
Responsible Scientist, M.Sc. Biotechnology

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ANALYSIS REQUESTED: 13C Isotope Analysis by EA/LC-IRMS (C4/C3 Sugars) (101158)

Parameter	Result	Unit	Method
Protein	-25.80	d13C(‰)	PM DE01.026:2022-04 (a) ¹
Honey	-25.64	d13C(‰)	PM DE01.026:2022-04 (a) ¹
Fructose (F)	-25.85	d13C(‰)	PM DE01.094:2022-04 (a) ²
Glucose (G)	-25.50	d13C(‰)	PM DE01.094:2022-04 (a) ²
Disaccharides	-24.93	d13C(‰)	PM DE01.094:2022-04 (a) ²
Trisaccharides	n.a.	d13C(‰)	PM DE01.094:2022-04 (a) ²
Oligosaccharides	n.a.	d13C(‰)	PM DE01.094:2022-04 (a) ²
Delta d13C (F-G)	-0.35	d13C(‰)	PM DE01.094:2022-04 (a) ²
Delta d13C (max.)	-0.92	d13C(‰)	PM DE01.094:2022-04 (a) ²
C4 Sugar Content	1.00	%	PM DE01.026:2022-04 (a) ¹
F/G Ratio	1.02		PM DE01.094:2022-04 (a) ²
Portion of Disaccharides	4.92	%	PM DE01.094:2022-04 (a) ³
Portion of Trisaccharides	n.d.	%	PM DE01.094:2022-04 (a) ³
Portion of Oligosaccharides	n.d.	%	PM DE01.094:2022-04 (a) ³

LC-IRMS is not an official method for F/G ratio; n.a.: not analyzed; n.d.: not detected < 1.0 %;
d13C value in permil. vs. V-PDB standard

SPECIFICATIONS OF PURE HONEY:
Delta d13C (F-G): not more than ±1.0 ‰
Delta d13C (max.) of individual d13C values: not more than ±2.1 ‰
C4 sugar content: ≤ 7.0 %; portion of oligosaccharides: n.d

Expanded measurement uncertainties are as follows: Protein: ±0.4 ‰; Honey: ±0.4 ‰; Fructose: ±0.4 ‰;
Glucose: ±0.4 ‰; Disaccharides: ±0.6 ‰; Trisaccharides: ±1.0 ‰; Oligosaccharides: ±1.0 ‰ (at 1.0 % level);
Delta d13C [Protein-Honey]: ±0.4 ‰

(a) : accredited method. (na) : not accredited method. (1) AOAC 998.12:2013 (2) Apidologie 39/5 (2008) 574-587
(3) Apidologie 39/5 (2008) 574-587; % related to total sugars.
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to be continued...



Interpretation:

Foreign sugars were not detected. Regarding the examined parameters, the sample meets the requirements for pure honey (Council Directive 2001/110/EC of 20 Dec 2001).

Uta Peters
Responsible Scientist, Certified Food Chemist

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ANALYSIS REQUESTED: Sulfonamides and Trimethoprim by LC-MS/MS (101169)

Parameter	Result	Unit	Method
Sulfaguanidine	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfanilamide	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfacetamide	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Succinylsulfathiazole	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfaphenazole	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfisomidine	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfadiazine	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfathiazole	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfapyridine	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfamerazine	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfamethazine	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfameter	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfamethoxypyridazine	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfachloropyridazine	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfamonomethoxine	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfisoxazole	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfamethoxazole	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfadoxine	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfaquinoxaline	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfadimethoxine	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfabenzamide	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfamoxole	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfaclozine	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfamethizole	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Sulfisozole	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹
Trimethoprim	n.d.	µg/kg	PM DE01.046:2019-07 (a) ¹

n.d. - not detected < limit of quantification 2 µg/kg; n.a. - not analyzed

(a) : accredited method. (na) : not accredited method. (1) Inhouse procedure

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to be continued...



Interpretation:

Regarding the examined parameters and the mentioned limit of quantification the sample corresponds to the legal regulations (regulation (EC) 470/2009 in conjunction with regulation (EU) 37/2010).

Hauke Zinow
Responsible Scientist, Certified Food Chemist

ANALYSIS REPORT No. 2503140217

DATE: 14.03.2025

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ANALYSIS REQUESTED: Streptomycin by LC-MS/MS (101170)

Parameter	Result	Unit	Method
Streptomycin	n.d.	µg/kg	PM DE01_104:2011-12 (a) ¹
Dihydrostreptomycin	n.d.	µg/kg	PM DE01_104:2011-12 (a) ¹
n.d. - not detected < 2 µg/kg limit of quantification			
(a) : accredited method. (na) : not accredited method. (1) Inhouse procedure			
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Interpretation:

Regarding the examined parameters and the mentioned limit of quantification the sample corresponds to the legal regulations (regulation (EC) 470/2009 in conjunction with regulation (EU) 37/2010).



Hauke Zinow
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ANALYSIS REQUESTED: Tetracyclines by LC-MS/MS (101174)

Parameter	Result	Unit	Method
Oxytetracycline	n.d.	µg/kg	PM DE01.060/116:2012 (a) ¹
Tetracycline	n.d.	µg/kg	PM DE01.060/116:2012 (a) ¹
Chlortetracycline	n.d.	µg/kg	PM DE01.060/116:2012 (a) ¹
Doxycycline	n.d.	µg/kg	PM DE01.060/116:2012 (a) ¹
Demeclocycline	n.d.	µg/kg	PM DE01.060/116:2012 (a) ¹
Methacycline	n.d.	µg/kg	PM DE01.060/116:2012 (a) ¹
Minocycline	n.d.	µg/kg	PM DE01.060/116:2012 (a) ¹
n.d. - not detected < limit of quantification 2 µg/kg			
(a) : accredited method. (na) : not accredited method. (1) Inhouse procedure (09/2012)			
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Interpretation:

Regarding the examined parameters and the mentioned limit of quantification the sample corresponds to the legal regulations (regulation (EC) 470/2009 in conjunction with regulation (EU) 37/2010). The results are stated as sum of the parent drug and the corresponding 4-Epimer.



Hauke Zinow
Responsible Scientist, Certified Food Chemist

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ANALYSIS REQUESTED: Diastase activity with p-nitrophenol substrate (101206)

Parameter	Result	Unit	Method
Diastase activity	16.4	DZ	DIN 10750-2, mod. (a) ¹
n.d. - not detected < limit of quantification (LOQ) 0.1 DZ			
(a) : accredited method. (na) : not accredited method. (1) 2022-09, LOQ 0.1 DZ			
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Interpretation:

Regarding the examined parameter, the sample corresponds to the legal requirement for honey.
(Article 1 in connection with Annex II Council directive 2001/110/EC)

Dr. Klaus Beckmann
Responsible Scientist, Certified Food Chemist

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ANALYSIS REQUESTED: Glycerol by Enzyme-Test (101208)

Parameter	Result	Unit	Method
Glycerol	468	mg/kg	PM DE01.091:2018-03 (a) ¹
n.d. - not detected: < 50 mg/kg			
(a) : accredited method. (na) : not accredited method. (1) Inhouse procedure This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

Interpretation:

The glycerol content in the above mentioned sample is increased compared to naturally occurring values for blossom honeys.

According to relevant literature glycerol contents higher than 300 mg/kg can give a hint to a fermentation. If neither the sensorial properties nor the yeast content give an additional hint the sample corresponds to legal regulation (Council directive 2001/110/EU in connection with relevant literature: "Hefen und Glycerin in Blütenhonigen, Nachweis einer Gärung oder einer abgestoppten Gärung", Harald Rußmann, Handelslabor Dr. Wiertz, Dipl. Chem. Eggert, Dr. Jörissen GmbH, Hamburg).

Note: Honeydew honeys may show a higher natural glycerol content than blossom honeys.



Dr. Nickolet Ncube
Responsible Scientist, Chemist

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ANALYSIS REQUESTED: Free Acid by Potentiometric Titration (101227)

Parameter	Result	Unit	Method
Free Acid	22.0	mmol/kg	DIN 10756, mod. (a) ¹

(a) : accredited method. (na) : not accredited method. (1) 2021-03
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Interpretation:

Regarding the examined parameter the sample corresponds to the legal requirements for honey (Council directive 2001/110/EC from Dec. 20th, 2001; Article 1 in connection with Annex II).

Dr. Nickolet Ncube
Responsible Scientist, Chemist

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Packaging / Quantity	: Plastic container / ca. 290 g	Start / End of analysis	: 13.03.2025 / 14.03.2025

ANALYSIS REQUESTED: Macrolides/Fluoroquinolones by LC-MS/MS (101472)

Parameter	Result	Unit	Method
Tylosin A	n.d.	µg/kg	PM DE01.125/.059 (a) ¹
Sum Erythromycin A	n.d.	µg/kg	PM DE01.125/.059 (a) ¹
Lincomycin	n.d.	µg/kg	PM DE01.125/.059 (a) ¹
Ciprofloxacin	n.d.	µg/kg	PM DE01.125/.059 (a) ¹
Enrofloxacin	n.d.	µg/kg	PM DE01.125/.059 (a) ¹
Norfloxacin	n.d.	µg/kg	PM DE01.125/.059 (a) ¹
Ofloxacin	n.d.	µg/kg	PM DE01.125/.059 (a) ¹
n.d. - not detected < limit of quantification of 2 µg/kg			
(a) : accredited method. (na) : not accredited method. (1) Inhouse procedure			
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Interpretation:

Regarding the examined parameters and the mentioned limit of quantification the sample corresponds to the legal regulations (Regulation (EC) 470/2009 in conjunction with Regulation (EU) 37/2010).

The result for tylosin A includes the identified metabolite tylosin B.

The result for sum erythromycin A includes the identified metabolite anhydroerythromycin A.



Hauke Zinow
Responsible Scientist, Certified Food Chemist

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ANALYSIS REQUESTED: Elements (101491)

Parameter	Result	Unit	Method
Lead (Pb)	n.d.	mg/kg	DIN EN 15763 mod. (a) ¹
n.d. - not detectable < limit of quantification (LOQ): Ag, As, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Te: 0.01 mg/kg (10 ppb); Li: 0.02 mg/kg; Ba, Fe, Mg, Ti, V, Zn: 0.10 mg/kg; Al, Ca, K, Na, P: 1.0 mg/kg; Expanded measurement uncertainty: $\pm 10\%$ rel			
(a) : accredited method. (na) : not accredited method. (1) 2010-04; ICP-MS This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

Interpretation:

Regarding the examined lead content and the mentioned limit of quantification the sample corresponds to the legal regulations. According to Commission Regulation (EU) 2023/915, a maximum level of 0.1 mg/kg applies for lead in honey.



Dr. Martin Schubert
Responsible Scientist, Certified Food Chemist

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ANALYSIS REQUESTED: Honey profiling by NMR (101750)

Parameter	Result	Method
NMR profile	typical	PM DE01.308:2022-05 (a) ¹
Detection of foreign sugars	no	PM DE01.308:2022-05 (a) ¹
Verification of geographical origin	not performed	PM DE01.308:2022-05 (a) ¹
Verification of botanical variety	not performed	PM DE01.308:2022-05 (a) ¹
Information about the geographical and/or botanical origin can have a significant influence on all aspects of the Bruker Honey Profiling analysis and should always be provided/incorporated in case it is available. Intertek does not take responsibility for incomplete information provided by the customer.		
(a) : accredited method. (na) : not accredited method. (1) Bruker Honey Profiling 3.1.4/ expert assessment This document may only be reproduced in full. The results given herein apply to the submitted sample only.		

Interpretation:

The NMR profile is typical for honey. There were no significant deviations detected according to reference database entries. Regarding the examined parameters the sample corresponds to the legal regulations (Council Directive 2001/110/EC dated Dec. 20th, 2001 relating to honey; Article 1 in connection with Annex II).



Daniel Schaal
Responsible Scientist, MSc Biochemistry

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ANALYSIS REQUESTED: Perchlorate and Chlorate by LC-MS/MS (102435)

Parameter	Result	Unit	Method
Perchlorate	n.d.	mg/kg	EURL-SRM QuPPE- v12 (a)
Chlorate	n.d.	mg/kg	EURL-SRM QuPPE- v12 (a)
n.d. - not detected < limit of quantification: 0.01 mg/kg			
(a) : accredited method. (na) : not accredited method.			
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Interpretation:

Regarding the examined parameter (chlorate), the mentioned limits of quantification and considering an expanded measurement uncertainty of 50% (SANTE/11312/2021), the sample corresponds to the EU-Regulation 396/2005. Maximum levels for perchlorate in food were set by the Regulation (EU) 2020/685 in conjunction with Regulation (EU) 2023/915. These maximum levels are valid from July 2020. There is still no legal limit in place for this sample. According to the ALARA principle, the perchlorate levels in food should be as low as possible (updated BfR statement No. 006/2018 of February 15, 2018 (Bundesamt für Risikobewertung, German institute for risk assessment)). Regarding the examined parameter and the limit of quantification, the above mentioned sample corresponds to the levels of perchlorate set as reference for intra-Union trade from the Standing Committee on plants, animals, food and feed (SC PAFF) of the European Commission (dated March 16th 2015).



Harald König
Assistant Testing Supervisor

Client:



Highlands Honeybee Travel Co., Ltd.
568 Vo Van Kiet St.
630000 Buon Ma Thuot
Vietnam

E-Mail: Highlands Honeybee Travel

Our reference no.	: PI2503130049		
Product	: Honey		
Sample description / Batch	: HC.GL 12-25		
Sample received on / transported by	: 13.03.2025 via Parcel service	Seal	: none
Sample temp. when received / stored	: RT	Sampling	: Client
Packaging / Quantity	: Plastic container / ca. 290 g	Start / End of analysis	: 13.03.2025 / 18.03.2025

ANALYSIS REQUESTED: Allergens via ELISA or enzymatically (103011)

Parameter	Result	Unit	Method
Casein	n.d.	mg/kg	ELISA (R-Biopharm) (a) ¹
Soy protein	n.d.	mg/kg	ELISA (R-Biopharm) (a) ²
β-Lactoglobulin (R4912)	n.d.	mg/kg	ELISA (R-Biopharm) (a) ³
n.d. - not detected < limit of quantification (LOQ)			
(a) : accredited method. (na) : not accredited method. (1) LOQ: 2,5 mg/kg (2) RIDASCREEN®FAST Soya R7102; LOQ: 2.5 mg/kg (3) R4912; LOQ: 0.2 mg/kg This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

Interpretation:

Concerning the analysed parameter and the mentioned limit of quantification, the sample does not contain allergens. Therefore a labeling regarding the above mentioned allergens is not necessary (Regulation (EU) No. 1169/2011).

Ncube

Dr. Nickolet Ncube
Responsible Scientist, Chemist