

Client:



beegut GmbH
Industriestr. 10
73489 Jagstzell
Germany

E-Mail: info@beegut.de; samuel@beegut.de

Our reference no.	: PI2103100312		
Product	: Lyophilized Royal Jelly		
Sample description / Batch	: BIO Gelee Royal lyophilisiert, Musternr.: 204116, Ursprung: Asien-China : Organic Lyophilized Royal Jelly, Sample No. 204116, Origin: Asia-China		
Sample received on / transported by	: 10.03.2021 via Parcel service	Seal	: none
Sample temp. when received / stored	: RT	Sampling	: Client
Packaging / Quantity	: Plastic bag / ca. 490g	Start / End of analysis	: 11.03.2021 / 12.03.2021

ANALYSIS REQUESTED: Tetracyclines by LC-MS/MS (108003)

Parameter	Result	Unit	Method
Oxytetracycline	n.d.	µg/kg	PM DE01_087 (a) ¹
Tetracycline	n.d.	µg/kg	PM DE01_087 (a) ¹
Chlortetracycline	n.d.	µg/kg	PM DE01_087 (a) ¹
Doxycycline	n.d.	µg/kg	PM DE01_087 (a) ¹
Demeclocycline	n.d.	µg/kg	PM DE01_087 (a) ¹

n.d. - not detected < limit of quantification 10 µg/kg; n.a. - not analyzable
(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 and the mentioned limit of quantification the sample corresponds to the legal regulations (regulation (EC) 470/2009 in conjunction with regulation (EU) 37/2010 (dated Feb. 9th 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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	: Organic Lyophilized Royal Jelly, Sample No. 204116, Origin: Asia-China		
Sample received on / transported by	: 10.03.2021 via Parcel service	Seal	: none
Sample temp. when received / stored	: RT	Sampling	: Client
Packaging / Quantity	: Plastic bag / ca. 490g	Start / End of analysis	: 12.03.2021 / 15.03.2021

ANALYSIS REQUESTED: Sulfonamides and Trimethoprim by LC-MS/MS (108033)

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
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
Sulfamethoxyipyridazine	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 5 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).

Dr. Imke Böttjer

Dr. Imke Böttjer
Responsible Scientist, Certified Food Chemist

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Sample temp. when received / stored : RT **Sampling** : Client
Packaging / Quantity : Plastic bag / ca. 490g **Start / End of analysis** : 12.03.2021 / 16.03.2021

ANALYSIS REQUESTED: Streptomycin by LC-MS/MS (108043)

Parameter	Result	Unit	Method
Streptomycin	n.d.	µg/kg	PM DE01_126 (a) ¹
Dihydrostreptomycin	n.d.	µg/kg	PM DE01_126 (a) ¹

n.d. - not detected < 5 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 (dated Feb. 9th 2010)).


Hauke Zinow
Responsible Scientist, Certified Food Chemist

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ANALYSIS REQUESTED: Microbiology for non-sterile products (European Pharmacopoeia) (500014)

Parameter	Result	Unit	Method
E. coli	n. d.	in 1 g	Ph.Eur 9.0/2.6.13 (a) ¹
Bile-tolerant, gram-negative bacteria	n. d.	cfu/g	Ph.Eur 9.0/2.6.13 (a) ¹
Salmonella in 25g	n. d.	in 25 g	Ph.Eur 9.0/2.6.13 (a) ¹
Staphylococcus aureus	n. d.	in 1 g	Ph.Eur 9.0/2.6.13 (a) ¹
TAMC	n. d.	cfu/g	Ph.Eur 9.0/2.6.12 (a) ²
TYMC	n. d.	cfu/g	Ph.Eur 9.0/2.6.12 (a) ²

n.d. - not detected (TAMC, TYMC: <10 cfu/g)

cfu = colony forming units
TAMC = total aerobic microbial count
TYMC = total combined yeasts/mould count

(a) : accredited method. (na) : not accredited method. (1) non-GMP (2) non-GMP
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Interpretation:

Regarding the examined parameters and the mentioned limits of detection the submitted sample corresponds to the microbiological requirements of the European pharmacopoeia, 9th Edition, provision for oral dosage forms containing raw materials of natural (animal, vegetal or mineral) origin for which anti microbial pretreatment is not feasible and for which the competent authority accepts TAMC of the raw material exceeding 1000 cfu per gram or per millilitre.

Dr. Sybille Kuhnert
Responsible Scientist, Biologist

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Sample temp. when received / stored : RT **Sampling** : Client
Packaging / Quantity : Plastic bag / ca. 490g **Start / End of analysis** : 11.03.2021 / 15.03.2021

ANALYSIS REQUESTED: Pesticides and Bee Treatment Agents by GC-MS/MS and LC-MS/MS (108107)

Parameter	Result	Unit	Method
Pesticides	n.d.	mg/kg	(a) ¹
n.d. - not detected < limit of quantification: 0.01 mg/kg			
(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:

Referring to the analyzed parameters and considering the above mentioned limit of quantification, in the investigated sample the above stated amounts of residue were determined. Since January 2018 the maximum residue levels (MRLs) of honey are not longer applicable to other apiculture products (pollen, royal jelly) due to their different chemicals characteristics. No MRLs are applicable to other apiculture products until individual products have been identified and listed within this group.

Peter Tebbe
Responsible Scientist, Certified Food Chemist

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ANALYSIS REQUESTED: Polycyclic Aromatic Hydrocarbons (PAHs) (108805)

Parameter	Result	Unit	Method
5-Methylchrysene	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Benzo(a)anthracene*	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Benzo(a)pyrene*	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Benzo(b)fluoranthene*	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Benzo(c)fluorene	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Benzo(ghi)perylene	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Benzo(j)fluoranthene	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Benzo(k)fluoranthene	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Chrysene*	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Triphenylene	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Cyclopenta(c,d)pyrene	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Dibenzo(a,h)anthracene	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Dibenzo(a,e)pyrene	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Dibenzo(a,h)pyrene	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Dibenzo(a,i)pyrene	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Dibenzo(a,l)pyrene	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
Indeno(1,2,3-c,d)pyrene	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹
*Sum PAH4	n.d.	µg/kg	PM DE01.128:2020-02 (a) ¹

n.d. - not detected < limit of quantification 0.5 µg/kg

(a) : accredited method. (na) : not accredited method. (1) Inhouse procedure, GPC cleanup, GC-MS
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Interpretation:

Regarding the examined parameter and the mentioned limit of quantification the sample corresponds to the legal regulations (EU regulation (EC) 1881/2006).

Harald König
 Assistant Testing Supervisor

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Packaging / Quantity	: Plastic bag / ca. 490g	Start / End of analysis	: 11.03.2021 / 15.03.2021

ANALYSIS REQUESTED: Pyrrolizidine alkaloids in pollen & royal jelly by LC-MS/MS (108150)

Parameter	Result	Unit	Method
Echimidine	n.d.	µg/kg	PM DE01_118 (a) ¹
Echimidine-N-oxide	n.d.	µg/kg	PM DE01_118 (a) ¹
Erucifoline	n.d.	µg/kg	PM DE01_118 (a) ¹
Erucifoline-N-oxide	n.d.	µg/kg	PM DE01_118 (a) ¹
Monocrotaline	n.d.	µg/kg	PM DE01_118 (a) ¹
Monocrotaline-N-oxide	n.d.	µg/kg	PM DE01_118 (a) ¹
Europine	n.d.	µg/kg	PM DE01_118 (a) ¹
Europine-N-oxide	n.d.	µg/kg	PM DE01_118 (a) ¹
Heliotrine	n.d.	µg/kg	PM DE01_118 (a) ¹
Heliotrine-N-oxide	n.d.	µg/kg	PM DE01_118 (a) ¹
Lasiocarpin	n.d.	µg/kg	PM DE01_118 (a) ¹
Lasiocarpine-N-oxide	n.d.	µg/kg	PM DE01_118 (a) ¹
Intermedine	n.d.	µg/kg	PM DE01_118 (a) ¹
Intermedine-N-oxide	n.d.	µg/kg	PM DE01_118 (a) ¹
Lycopsamine	n.d.	µg/kg	PM DE01_118 (a) ¹
Lycopsamine-N-oxide	n.d.	µg/kg	PM DE01_118 (a) ¹
Retrorsine	n.d.	µg/kg	PM DE01_118 (a) ¹
Retrorsine-N-oxide	n.d.	µg/kg	PM DE01_118 (a) ¹
Senecivernine	n.d.	µg/kg	PM DE01_118 (a) ¹
Senecivernine-N-oxide	n.d.	µg/kg	PM DE01_118 (a) ¹
Senecionine	n.d.	µg/kg	PM DE01_118 (a) ¹
Senecionine-N-oxide	n.d.	µg/kg	PM DE01_118 (a) ¹
Seneciphylline	n.d.	µg/kg	PM DE01_118 (a) ¹
Seneciphylline-N-oxide	n.d.	µg/kg	PM DE01_118 (a) ¹
Jacobine	n.d.	µg/kg	PM DE01_118 (a) ¹
Jacobine-N-oxide	n.d.	µg/kg	PM DE01_118 (a) ¹
Senkirkine	n.d.	µg/kg	PM DE01_118 (a) ¹

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Parameter	Result	Unit	Method
Trichodesmine	n.d.	µg/kg	PM DE01_118 (a) ¹
Sum of Pyrrolizidine alkaloids	n.d.	µg/kg	PM DE01_118 (a) ¹

n.d. - not detected < limit of quantification (LOQ) 1 µg/kg
Trichodesmine, Retrorsine, Retrorsine-N-oxide, Senecionine, Senecionine-N-oxide, Seneciphylline, Seneciphylline-N-oxide,
Senecivernine, Senecivernine-N-oxide < LOQ 2 µg/kg
Monocrotaline, Monocrotaline-N-oxide, Jacobine, Jacobine-N-oxide, Erucifoline, Erucifoline-N-oxide < LOQ 10 µg/kg

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

In the investigated sample the pyrrolizidine alkaloids above were not detected.

Hauke Zinow
Responsible Scientist, Certified Food Chemist

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Packaging / Quantity	: Plastic bag / ca. 490g	Start / End of analysis	: 11.03.2021 / 12.03.2021

ANALYSIS REQUESTED: 10-Hydroxy-2-decenoic acid by HPLC-UV (108242)

Parameter	Result	Unit	Method
10-Hydroxy-2-decenoic acid	4.77	% (g/100g)	ISO 12824:2016-09 (a) ¹
n.d. not detected < Limit of quantification 0.01%			
(a) : accredited method. (na) : not accredited method. (1) Annex B.1 This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

Interpretation:

Based on the water content of fresh royal jelly and regarding the examined parameters the analysed sample complies with the chemical requirements of ISO 12824 of royal jelly.

Dr. Martin Schubert
 Responsible Scientist, Certified Food Chemist

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Sample received on / transported by	: 10.03.2021 via Parcel service	Seal	: none
Sample temp. when received / stored	: RT	Sampling	: Client
Packaging / Quantity	: Plastic bag / ca. 490g	Start / End of analysis	: 11.03.2021 / 17.03.2021

ANALYSIS REQUESTED: Commercial Analysis of Royal Jelly Lyophilisates (108237)

Parameter	Result	Method
Appearance	yellowish-white fine powder	PM DE01.108 (a) ¹
Odour	sour,pungent,typ. for royal jelly	PM DE01.108 (a) ¹
Taste	sour,pungent,adstringent, typical for royal jelly	PM DE01.108 (a) ¹
Water and volatile substances	6.0 %	ASU L 06.00-3, mod. (a) ²
Ash	3.0 %	PM DE01.311:2019-07 (a)
pH	4.1	SLMB 29.11, mod. (a) ³
Protein (N x 6,25)	39.5 %	Annex C.1** (a)
Total lipid	11.3 %	Annex F** (a)
Fructose (F)	16.4 %	Annex D.1** (a)
Glucose (G)	16.3 %	Annex D.1** (a)
Sucrose (S)	3.1 %	Annex D.1** (a)
Maltose	0.6 %	Annex D.1** (a)
Erlöse	1.3 %	Annex D.1** (a)
Melezitose	n.d. %	Annex D.1** (a)
Maltotriose	n.d. %	Annex D.1** (a)
Total sugar (F+G+S)	35.8 %	Annex D.1**
n.d. - not detected < 0.1% Water and volatile substances, ash, protein, lipids, < 0.5 % sugars **Methods according to annexes of ISO 12824:2016		
(a) : accredited method. (na) : not accredited method. (1) DIN 10964 (2) 2014-08, 103°C (3) 2000-07 This document may only be reproduced in full. The results given herein apply to the submitted sample only.		

Interpretation:

Regarding the examined parameters and the mentioned limit of quantification, the present sample shows the above mentioned values. The values are within the expected range for lyophilised royal jelly taking into account empirical data for water and volatile substances in fresh and lyophilised royal jelly as well as the requirements of ISO 12824 for

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fresh royal jelly (Primarily) and expected values presented in Sabatini et al.: Quality and standardisation of royal jelly, 2009 (Secondarily).

C. Schielmann

Christopher Schielmann
Responsible Scientist, Certified Food Chemist

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Sample temp. when received / stored : RT **Sampling** : Client
Packaging / Quantity : Plastic bag / ca. 490g **Start / End of analysis** : 11.03.2021 / 15.03.2021

ANALYSIS REQUESTED: Chloramphenicol by LC-MS/MS (108016)

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 MRPL (Minimum Required Performance limit) for chloramphenicol = 0.3 µg/kg according to Decision 2002/657/EC			
(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 limit of quantification and the MRPL of 0.3 µg/kg which applies as reference point for action for food of animal origin, the sample corresponds to the legal regulations (Regulation (EC) 470/2009 in conjunction with Regulation (EU) 37/2010) and corresponds to Decision 2002/657/EC.

Hauke Zinow
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Sample temp. when received / stored : RT **Sampling** : Client
Packaging / Quantity : Plastic bag / ca. 490g **Start / End of analysis** : 11.03.2021 / 15.03.2021

ANALYSIS REQUESTED: Aflatoxins by HPLC-FLD (107319)

Parameter	Result	Unit	Method
Aflatoxin B1	n.d.	µg/kg	DIN EN ISO 16050 mod (a) ¹
Aflatoxin B2	n.d.	µg/kg	DIN EN ISO 16050 mod (a) ¹
Aflatoxin G1	n.d.	µg/kg	DIN EN ISO 16050 mod (a) ¹
Aflatoxin G2	n.d.	µg/kg	DIN EN ISO 16050 mod (a) ¹
Sum of B1 + B2 + G1 + G2	n.d.	µg/kg	²

n.d. - not detected < 0.3 µg/kg limit of quantification ; n.a. - not analysable
(a) : accredited method. (na) : not accredited method. (1) 2011-09 (2) calculated
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Interpretation:

Regarding the examined parameters and the mentioned limits of quantification, in the investigated sample the above stated amounts were determined.

Dr. Martin Schubert
Responsible Scientist, Certified Food Chemist

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ANALYSIS REQUESTED: Elements by ICP-MS (101491)

Parameter	Result	Unit	Method
Lead (Pb)	0.014	mg/kg	DIN EN 15763 mod. (a) ¹
Cadmium (Cd)	n.d.	mg/kg	DIN EN 15763 mod. (a) ¹
Mercury (Hg)	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; Li: 0.02 mg/kg; Ba, Fe, Mg, Tl, V, Zn: 0.10 mg/kg; Al, Ca, K, Na, P: 1.0 mg/kg			
(a) : accredited method. (na) : not accredited method. (1) 2010-04 This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

Interpretation:

The found contents lie within the range of the naturally occurring range for this kind of foodstuff (ref.: Swiss Food Compendium, Chapter 23A, EDMZ, 1995; Stefan Bogdanov, Contaminants of bee products, Apidologie 37 (2006); MAFF UK - Analysis of bee products for heavy metals, MAFF Food Surveillance Information Sheet no. 53, Feb 1995, Sheet no. 85, Dec. 2005; Roman et al.: Comparative study of selected toxic elements in propolis and honey, Journal of Apicultural Science, Vol. 55 No. 2, 2011).

Regarding the examined parameters the sample meets the requirements of Commission Regulation (EC) No. 1881/2006 for food supplements (limit values: Pb: 3 mg/kg, Cd: 1 mg/kg, Hg: 0.1 mg/kg).

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Responsible Scientist, Certified Food Chemist