

Client:



Cum Natura GmbH
Am Froschbächle 17
77815 Bühl
Germany

E-Mail: info@imkergut.de

Our reference no.	: PI2507110056		
Product	: Bee Pollen		
Sample description / Batch	: Bee Pollen from Spain, ref. 25011863-0030013 (PS)		
Sample received on / transported by	: 11.02.2026 via Parcel	Seal	: none
Sample temp. when received / stored	service : RT	Sampling	: Client
Packaging / Quantity	: Plastic bag / ca. 200g	Start / End of analysis	: 11.02.2026 / 16.02.2026

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

Parameter	Result	Unit	Method
Amitraz (incl. Metabolites)	0.042	mg/kg	(a) ¹
other 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.

S. Puls

Swantje Puls
Responsible Scientist, M.Sc. Biotechnology

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ANALYSIS REQUESTED: Pyrrolizidine alkaloids in bee products by LC-MS/MS (758002)

Parameter	Result	Unit	Method
Echimidine + Heliosupine	61	µg/kg	PM DE01.118:2016-09 (a) ¹
Echimidine-N-oxide + Heliosupine-N-oxide	14	µg/kg	PM DE01.118:2016-09 (a) ¹
Erucifoline**	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Erucifoline-N-oxide**	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Monocrotaline**	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Monocrotaline-N-oxide**	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Europine	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Europine-N-oxide	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Heliotrine	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Heliotrine-N-oxide	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Lasiocarpin	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Lasiocarpine-N-oxide	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Intermedine - Group*	27	µg/kg	PM DE01.118:2016-09 (a) ¹
Intermedine-N-oxide - Group*	10	µg/kg	PM DE01.118:2016-09 (a) ¹
Retrorsine + Usaramine	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Retrorsine-N-oxide + Usaramine-N-oxide	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Senecionine - Group*	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Senecionine-N-oxide - Group*	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Seneciphylline + Spartioidine	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Seneciphylline-N-oxide + Spartio.-N-oxid	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Jacobine**	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Jacobine-N-oxide**	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Senkirkine	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Trichodesmine**	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹

to be continued...



Parameter	Result	Unit	Method
Jaconine**	n.d.	µg/kg	PM DE01.118:2016-09 (a) ¹
Sum of Pyrrolizidine alkaloids	112	µg/kg	PM DE01.118:2016-09 (a) ¹
*Intermedine Group: Intermedine, Lycopsamine, Indicine, Echinatine, Rinderine *Intermedine-N-oxide Group: Intermedine-N-oxide, Lycopsamine-N-oxide, Indicine-N-oxide, Echinatine-N-oxide, Rinderine-N-oxide *Senecionine Group: Senecionine, Senecivernine, Integerrimine *Senecionine-N-oxid Group: Senecionine-N-oxide, Senecivernine-N-oxide, Integerrimine-N-oxide n.d. - not detected < limit of quantification (LOQ) 1 µg/kg Trichodesmine, Retrorsine + Usaramine, Retrorsine-N-oxide + Usaramine-N-oxide, Senecionin-Group, Senecionine-N-oxide-Group, Seneciphylline + Spartioidine, Seneciphylline-N-oxide + Spartioidine-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 This document may only be reproduced in full. The results given herein apply to the submitted sample only.			

Interpretation:

The submitted sample shows the above indicated content of pyrrolizidine alkaloids. This content is below the limit for pyrrolizidine alkaloids in pollen and products made of pollen of 500 µg/kg (Commission Regulation (EU) 2023/915 as of 25 May 2023).

Hauke Zinow
Responsible Scientist, Certified Food Chemist