

Test Report No. 210-120336

QSI GmbH - Flughafendamm 9a - D-28199 Bremen

Danmarks Biavlerforening
 Asger Søgaard Jørgensen
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 4180 Soro
 DENMARK

Date: 05-Oct-2017

Customer No.:	10070	Sample No.:	61770
Product:	Honig/Honey		
Label: Maerke: 21, DBF kontrol: -, Hans-Erik GermuthBakkedraget 18, 4000 Roskilde,			
Lind			
Arrival Date:	29-Sep-2017	Start / End of Analysis:	29-Sep-2017 / 05-Oct-2017
Kind:	Denmark	Packaging:	Plastik 250 ml
Seal:	ohne/without	Temp.:	RT

VA45153 - Pyrrolizidine alkaloids (PA) in honey with SPE-LC-MS/MS (acc. to BfR-PA-Honey-1.0, 2013)

Parameter in µg/kg	LOQ*	Result
Sum of BfR-28 Pyrrolizidine Alkaloids*		22,6
Sum of total Pyrrolizidine Alkaloids		22,6
Echimidine*	1	1,0
Echimidine-N-Oxide*	1	6,3
Erucifoline*	5	n.n.
Erucifoline-N-Oxide*	2	2,2
Heliotrine*	1	n.n.
Heliotrine-N-Oxide*	1	n.n.
Lycopsamine*	1	n.n.
Lycopsamine-N-Oxide*	1	n.n.
Europine*	1	n.n.
Europine-N-Oxide*	1	n.n.
Intermedine+further tert. Lycopsamine-Type PA*	1	n.n.
Intermedin-N-Oxid* (+Indicin-N-Oxid and further LycTyp-PA-NOx)	1	1,3
Jacobine*	1	n.n.
Jacobine-N-Oxide*	2	n.n.
Senecionine*	1	1,1
Senecionine-N-Oxide*	1	3,9
Seneciphylline*	1	1,5
Seneciphylline-N-Oxide*	3	5,3
Senecivernine*	1	n.n.
Senecivernine-N-Oxide*	1	n.n.
Senkirkine*	1	n.n.
Monocrotaline*	5	n.n.
Monocrotaline-N-Oxide*	2	n.n.
Lasiocarpine*	1	n.n.
Lasiocarpine-N-Oxide*	1	n.n.
Retrorsine*	1	n.n.
Retrorsine-N-Oxide*	2	n.n.
Riddelliine**	3	n.n.
Riddelliine-N-Oxide**	5	n.n.

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Trichodesmine*	1	n.n.
** = no certified reference standard		
µg PA per 20 g Honey (one portion)		0,45
µg BfR-PA* per 20 g Honey (one portion)		0,45

* loq = limit of quantitation, n.n. = not detectable (below loq)
 Scope of PA according to BfR method 2.0/2014 for plant material.

This examination is the basis for special decision guidance.

Quality Services International GmbH

Version 0


 Annika Hoffmann
 Food Chemist



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.