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Deutsche
Akkreditierungsstelle
D-PL-14589-02-00

DAkkS accredited test laboratory according to
DIN ISO / IEC 17025. The accreditation ap-
plies only to the test method marked with (Z).

Record No: W 1227/17

Date: 14.12.2017

LAB-No.: W 1227/17

Product: beeswax

Code: DBF 4. Kroborg Vestre Birk BF, 3220 Graested

date of delivery: 27. Nov. 2017

packing: plastic bag

to melt: no

locked: no

start – end of analysis: 5. Dez. - 12. Dez. 2017

Order: analysis of residues – varroazides - -

active substance	determination limit in mg/kg	result (mg/kg)	Methode
Brompropylat	0,5	n.d.	SOP P-1-002 (z)
Coumaphos	0,5	n.d.	SOP P-1-002 (z)
Fluvalinat	0,5	n.d.	SOP P-1-002 (z)
Tetradifon	0,5	n.d.	SOP P-1-002 (z)
Acrinathrin	0,5	n.d.	SOP P-1-002 (z)
Thymol	3,0	no analysis	SOP P-1-009
Dimethylphenylformamid (DMF)	0,5	no analysis	SOP P-1-006
Vinclozolin	0,5	n.d.	SOP P-1-002 (z)
Alpha-Cypermethrin	0,5	n.d.	SOP P-1-002 (z)
Lambda-Cyhalothrin	0,5	n.d.	SOP P-1-002 (z)
Boscalid	0,5	n.d.	SOP P-1-002 (z)
Chlorfenvinphos	0,5	n.d.	SOP P-1-002 (z)
Beta-Cyfluthrin	0,5	n.d.	SOP P-1-002 (z)
Tolyfluanid	0,5	n.d.	SOP P-1-002 (z)
Myclobutanil	0,5	n.d.	SOP P-1-002 (z)
Iprodion	0,5	n.d.	SOP P-1-002 (z)
Deltamethrin	0,5	n.d.	SOP P-1-002 (z)
N,N-Diethyl-m-toluamid (DEET)	0,1	no analysis	SOP P-1-006
Paradichlorbenzol	0,5	no analysis	SOP P-1-009

n.d. = no residues detectable < determination limit

Valuation:

In the analysed beeswax are no residues detectable.

Dr. Klaus Wallner
Dipl.-Ing. agr., Dr.sc.

To copy in extract is not allowed!



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BIC-Code: SOLADESTXXX
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Appendix – test report beeswax

Varroacides	Active ingredient	Limit of quantitation (mg/kg)	Method
Folbex VA Neu	Bromopropylate	0,5	SOP P-1-002 (z)
Perizin / Asuntol	Coumaphos	0,5	SOP P-1-002 (z)
Klartan / Apistan	Fluvalinate	0,5	SOP P-1-002 (z)
Tedion	Tetradifon	0,5	SOP P-1-002 (z)
Gabon PA	Acrinathrin	0,5	SOP P-1-002 (z)
Thymovar / Apiguard	Thymol	3,0	SOP P-1-009
Amitraz	Dimethylphenylformamid (DMF)	0,5	SOP P-1-006
Plant protection pesticides			
Ronilan	Vinclozolin	0,5	SOP P-1-002 (z)
Fastac SC	Alpha-Cypermethrin	0,5	SOP P-1-002 (z)
Karate	Lambda-Cyhalothrin	0,5	SOP P-1-002 (z)
Cantus	Boscalid	0,5	SOP P-1-002 (z)
Bulldock	Beta-Cyfluthrin	0,5	SOP P-1-002 (z)
Euparen M WG	Tolyfluanid	0,5	SOP P-1-002 (z)
Systhane	Myclobutanil	0,5	SOP P-1-002 (z)
Verisan	Iprodion	0,5	SOP P-1-002 (z)
Decis	Deltamethrin	0,5	SOP P-1-002 (z)
Supona	Chlorfenvinphos	0,5	SOP P-1-002 (z)
Others			
Fabi-Spray (repellent)	N,N-Diethyl-m-toluamid (DEET)	0,1	SOP P-1-006
Imker-Globol / Styx	Paradichlorbenzol (PDCB)	0,5	SOP P-1-009

SOP P-1-002 (z):

Internal method – multi method based on solid phase extraction and GC-ECD, accredited according DIN EN ISO/ IEC 17025 of the DAkkS Deutsche Akkreditierungsstelle GmbH.



SOP P-1-006:

Internal method – multi method based on solid phase extraction and GC-MS.

SOP P-1-009:

Internal method based on headspace and GC-MS.

Remarks:

Residues of varroacides and other pesticides are able to migrate from beeswax into stored honey.

Residues above 1 mg/kg (DEET and PDCB 0.5 mg/kg) in wax may cause measurable residues in honey. Beside these migration processes also contaminated wax particles may influence the quality of honey. Foundations, which are planned for use in colonies, should be contaminated below these levels (if possible below 1 mg/kg).