

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).