

Chronic exposure of honeybees, *Apis mellifera* (Hymenoptera: Apidae), to a pesticide mixture in realistic field exposure rates

Franziska Böhme*, Gabriela Bischoff, Claus PW Zebitz, Peter Rosenkranz, Klaus Wallner

*Corresponding author: F. Böhme,

University of Hohenheim, Apicultural State Institute, August-von-Hartmann-Str. 13, 70599 Stuttgart, Germany.

E-mail: franziska.boehme@uni-hohenheim.de

Table S-III. Concentrations (µg/kg) of pesticide residues found in larvae and nurse bee tagmata. (Analysis at JKI, Berlin)

Treatment	Colony	Azoxystrobin				Dimoxystrobin	Fenoxycarb				Flumethrin	Tau-Fluvalinate	Thiacloprid
		Larvae	Heads	Thoraxes	Abdomen	Abdomen	Larvae	Heads	Thoraxes	Abdomen	Abdomen	Abdomen	Larvae
LOD (µg/kg)		0.025	0.11	0.04	0.09	0.09	0.025	0.54	0.21	0.94	37	0.19	0.025
LOQ (µg/kg)		0.05	0.27	0.10	0.19	0.19	0.05	1.08	0.41	1.87	47	0.94	0.05
Control	1	n.d.	n.d.	n.d.	n.d	n.d.	0.19	n.d.	n.d.	n.d.	66.7	n.d.	n.d.
	2	n.d.	n.d.	n.d.	n.d.	n.d.	0.22	n.d.	n.d.	n.d.	57.6	n.d.	n.d.
	3	n.d.	< LOQ	< LOQ	1.88	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Pesticides	1	n.d.	n.d.	n.d.	< LOQ	< LOQ	0.08	n.d.	n.d.	n.d.	n.d	< LOQ	n.d.
	2	n.d.	n.d.	n.d.	n.d.	n.d.	0.09	n.d.	n.d.	n.d.	n.d.	< LOQ	n.d.
	3	< LOQ	n.d	< LOQ	0.45	n.d.	0.06	n.d.	n.d.	n.d.	< LOQ	< LOQ	< LOQ
	4	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Tox. Reference	1	< LOQ	n.d.	< LOQ	n.d	n.d.	22.62	< LOQ	0.70	34.65	53.2	n.d.	n.d.
	2	n.d.	n.d.	n.d.	n.d.	n.d.	12.19	2.34	1.40	64.37	< LOQ	n.d.	n.d.
	3	n.d.	n.d.	n.d.	n.d	n.d.	15.21	< LOQ	0.85	39.87	< LOQ	n.d.	n.d.
	4	n.d.	---	---	---	---	28.14	---	---	---	---	n.d.	n.d.

n.d. = not detectable

note: substances that are not detected are not listed.