

**Pesticide Screening in Royal Jelly,
Limits of Quantification (July 4th 2012)**

Active Substance	LOQ LC-MS/MS [mg/kg]	LOQ GC-MS(/MS) [mg/kg]
Abamectin	0.03	
Acephate	0.01	
Acetamiprid	0.01	
Acetochlor	0.01	
Acibenzolar-S-methyl	0.04	
Aclonifen		0.13
Acrinathrin		0.01
Alachlor		0.02
Aldicarb	0.01	
Aldicarb-sulfone (= Aldoxycarb)	0.03	
Aldicarb-sulfoxide	0.02	
Aldrin		0.01
Ametryne	0.01	
Amitraz (incl. the metabolites containing the 2,4 - dimethylaniline moiety expressed as amitraz)	0.01	
Anilazine	0.01	
Atrazine	0.01	
Azaconazole	0.01	
Azinphos-ethyl		0.01
Azinphos-methyl		0.01
Azoxystrobin	0.01	
Benalaxyl	0.01	
Benfluralin		0.01
Benfuracarb		0.02
Bifenthrin		0.02
Binapacryl		0.02
Biphenyl		0.01
Bitertanol	0.01	
Boscalid	0.01	
Bromacil	0.04	
Bromocyclen		0.02
Bromophos-ethyl	0.01	
Bromophos-methyl		0.01
Bromopropylate (incl. 4,4'-Dibrombenzophenone)		0.02
Bromoxynil	0.02	
Bromuconazole	0.01	
Bupirimate	0.01	
Buprofezin	0.01	
Butafenacil	0.01	0.02
Butralin	0.01	
Cadusafos	0.01	
Captan		0.06
Carbaryl	0.01	
Carbendazim (incl. Benomyl)	0.01	
Carbofuran (incl. Carbosulfan)	0.01	
Carbofuran-3-hydroxy	0.02	

Active Substance, to be continued	LOQ LC-MS/MS [mg/kg]	LOQ GC-MS/(MS) [mg/kg]
Carbophenothion-ethyl		0.02
Carbophenothion-methyl		0.02
Carboxin	0.01	
Chlordane, cis-		0.02
Chlordane, trans-		0.02
Chlorfenapyr		0.01
Chlorfenson		0.01
Chlorfenvinphos	0.01	0.01
Chlormephos	0.05	
Chlorobenzilate		0.01
Chlorotoluron	0.01	
Chloroxuron	0.01	
Chlorpropham		0.01
Chlorpyrifos(-ethyl)		0.01
Chlorpyrifos-methyl		0.01
Chlorsulfuron	0.01	
Chlorthal-dimethyl		0.02
Chlorothalonil		0.01
Chlorthion		0.02
Chlorthiophos		0.02
Chlozolate		0.01
Clethodim	0.01	
Clodinafop-propargyl	0.01	
Clofentezine	0.05	
Clomazone	0.01	
Clothianidin	0.02	
Coumaphos		0.01
Crimidine	0.01	
Cyanazine	0.01	
Cyanofenphos		0.01
Cyanophos		0.02
Cyazofamid	0.02	
Cycloate	0.02	0.01
Cyfluthrin		0.01
Cyhalothrin, lambda-		0.02
Cymiazole	0.01	
Cymoxanil	0.04	
Cypermethrin		0.01
Cyproconazole	0.01	
Cyprodinil	0.01	0.01
Cyromazine	0.01	
Daminozide	0.1	
DDD, o,p'-		0.02
DDD, p,p'-		0.01
DDE, o,p'-		0.01
DDE, p,p'-		0.01
DDT, o,p'-		0.01
DDT, p,p'-		0.01
Deltamethrin		0.02

Active Substance, to be continued	LOQ LC-MS/MS [mg/kg]	LOQ GC-MS(MS) [mg/kg]
Demeton-S-methyl	0.02	
Demeton-S-methyl-sulfone	0.02	
Demeton-S-methyl-sulfoxide	0.06	
Desmedipham	0.01	
Desmetryn	0.01	
Diafenthiuron	0.03	
Diazinon		0.02
Dichlobenil		0.01
Dichlofenthion	0.02	
Dichlofluanid		0.06
Dichlorvos	0.01	0.01
Diclobutrazol	0.01	
Dicloran		0.01
Dicofol (incl. 4,4'-Dichlorobenzophenone)		0.02
Dicrotophos	0.05	
Dieldrin		0.01
Diethofencarb	0.01	
Diethyltoluamide (DEET)	0.01	0.02
Difenoconazole	0.01	
Diflubenzuron	0.01	
Diflufenican		0.01
Dimethachlor	0.01	
Dimethenamid		0.01
Dimethoate	0.01	0.01
Dimethomorph	0.01	
Dimoxystrobin	0.01	0.01
Diniconazole	0.01	
Dinoseb	0.02	
Diphenamid	0.01	
Diphenylamine	0.01	
Dipropethryn	0.01	0.01
Disulfoton	0.02	
Disulfoton-PS-sulfone	0.01	
Disulfoton-PS-sulfoxide	0.01	
Ditalimfos		0.01
Diuron	0.01	
Dodine	0.01	
Emamectin	0.01	
Endosulfan, alpha-		0.02
Endosulfan, beta-		0.02
Endosulfan-sulfate		0.01
Endrin		0.01
Epoxiconazole	0.01	
Esfenvalerate		0.01
Etaconazole	0.01	
Ethiofencarb	0.02	
Ethirimol	0.01	
Ethoprophos	0.01	
Etofenprox		0.01

Active Substance, to be continued	LOQ LC-MS/MS [mg/kg]	LOQ GC-MS(/MS) [mg/kg]
Etoxazole	0.15	
Etridiazole		0.02
Etrimfos	0.02	
Famoxadone	0.04	
Famphur		0.05
Fenamidone	0.01	
Fenarimol	0.01	
Fenazaquin	0.01	
Fenbuconazole	0.01	
Fenchlorphos		0.01
Fenhexamid	0.01	
Fenitrothion	0.01	
Fenoxycarb	0.01	
Fenpiclonil	0.02	
Fenpropathrin	0.01	0.02
Fenpropidin	0.01	
Fenpropimorph	0.01	
Fenpyroximate	0.01	
Fensulfothion		0.01
Fenson		0.01
Fenthion	0.05	
Fenthion-oxon	0.07	
Fenthion-PO-sulfone (= Fenthion-oxon-sulfone)	0.01	
Fenthion-PS-sulfone (= Fenthion-sulfone)	0.03	
Fenthion-sulfoxide	0.02	
Fenvalerate		0.01
Fipronil	0.01	0.01
Fluazifop-P-butyl	0.01	
Fluazinam	0.01	
Fluchloralin		0.01
Flucythrinate		0.02
Fludioxonil	0.01	
Flufenacet	0.01	0.02
Flufenoxuron	0.01	
Fluopicolide	0.01	
Fluotrimazole	0.01	
Fluquinconazole	0.04	
Flurpirimidol	0.01	
Flusilazole	0.01	
Fluthiacet-methyl	0.04	
Flutriafol	0.02	0.02
Fluvalinate, tau-		0.02
Folpet		0.04
Fonofos	0.02	
Forchlorfenuron	0.02	
Formetanate	0.01	
Fosthiazate	0.01	
Furalaxyl	0.01	
Furathiocarb		0.02

Active Substance, to be continued	LOQ LC-MS/MS [mg/kg]	LOQ GC-MS(/MS) [mg/kg]
Halfenprox		0.02
Haloxyfop	0.02	
HCH, alpha-		0.02
HCH, beta-		0.01
HCH, delta-		0.03
Heptachlor		0.01
Heptachlorepoxyde, cis- (exo-)		0.01
Heptachlorepoxyde, trans- (endo-)		0.01
Heptenophos	0.01	
Hexachlorobenzene (HCB)		0.01
Hexaconazole	0.01	
Hexazinone	0.01	
Hexythiazox	0.01	
Imazalil	0.01	
Imidacloprid	0.01	
Indoxacarb	0.04	
Iodofenphos		0.01
Iodsulfuron-methyl	0.08	
Iprodione		0.01
Iprovalicarb	0.09	
Isocarbophos		0.01
Isodrin		0.02
Isofenphos	0.01	
Isofenphos-methyl	0.01	0.04
Isoprocab	0.01	0.01
Isoprothiolane		0.07
Isoproturon	0.01	
Isoxathion		0.01
Kresoxim-methyl	0.02	
Landrin	0.01	
Lenacil	0.02	
Lindane (HCH, gamma-)	0.01	
Linuron	0.01	
Lufenuron	0.01	
Malaoxon		0.01
Malathion	0.01	0.01
MCPA	0.03	
MCPB	0.03	
Mecarbam	0.02	
Mecoprop-P	0.03	
Mefenpyr-diethyl	0.01	0.02
Mepanipyrim	0.01	
Mepronil	0.01	
Metalaxyl	0.01	
Metamitron	0.01	
Metazachlor	0.01	
Metconazole	0.01	
Methacrifos	0.05	
Methamidophos	0.03	
Methidathion	0.01	

Active Substance, to be continued	LOQ LC-MS/MS [mg/kg]	LOQ GC-MS(MS) [mg/kg]
Methiocarb	0.02	
Methiocarb-sulfone	0.05	
Methiocarb-sulfoxide	0.04	
Methomyl	0.02	
Methoxychlor		0.02
Methoxyfenozide	0.01	
Metobromuron	0.02	
Metolachlor	0.01	0.05
Metolcarb	0.01	
Metrafenon	0.01	
Metribuzin	0.01	
Mevinphos	0.02	
Mirex		0.02
Molinate	0.01	
Monocrotophos	0.02	0.01
Monolinuron	0.01	
Myclobutanil	0.01	0.02
Napropamide	0.01	
Neburon	0.02	
Nitenpyram	0.02	
Nitralin		0.01
Nitrapyrin		0.02
Nitrofen		0.01
Norflurazole	0.01	
Northal-isopropyl		0.02
Nuarimol	0.01	
Ofurace	0.01	
Omethoate	0.03	0.02
Oxadixyl	0.01	
Oxyfluorfen		0.02
Paraoxon-ethyl		0.06
Paraoxon-methyl		0.04
Parathion-ethyl		0.01
Parathion-methyl		0.01
PCB 101		0.02
PCB 118		0.02
PCB 138		0.03
PCB 153		0.03
PCB 180		0.02
PCB 28		0.01
PCB 52		0.01
Pebulate		0.01
Penconazole	0.01	
Pencycuron	0.01	
Pendimethalin		0.01
Pentachloroaniline		0.01
Pentachloranisol		0.01
Permethrin		0.02
Perthane		0.01

Active Substance, to be continued	LOQ LC-MS/MS [mg/kg]	LOQ GC-MS(MS) [mg/kg]
Pethoxamid	0.01	
Phenmedipham	0.01	
Phenthoate	0.02	
Phenylphenol, o- (2-Phenylphenol)		0.02
Phorate	0.05	
Phorate-sulfon		0.01
Phosalone	0.01	0.01
Phosmet	0.01	
Phosphamidon, alpha-	0.02	
Phosphamidon, beta-	0.02	
Picaridin	0.03	
Picolinafen		0.02
Picoxystrobin	0.01	0.01
Piperonyl butoxide		0.01
Pirimicarb	0.01	
Pirimicarb, Desmethyl-	0.02	
Pirimiphos-ethyl	0.01	
Pirimiphos-methyl	0.01	
Prochloraz	0.01	
Procymidone		0.02
Profenofos	0.01	
Profluralin		0.01
Profoxydim	0.01	
Profoxydim-lithium I		0.01
Promecarb	0.01	0.01
Prometryn		0.02
Propachlor		0.02
Propamocarb	0.01	
Propargite	0.01	0.02
Propetamphos	0.01	0.02
Propham	0.01	
Propiconazole	0.01	
Propoxur	0.01	
Propoxycarbazone	0.07	
Propyzamide	0.01	
Proquinazid	0.01	
Proquizafop	0.01	
Prosulfocarb	0.01	0.01
Prosulfuron	0.01	
Prothiophos	0.05	
Pymetrozine	0.01	
Pyraclostrobin	0.01	
Pyrazophos	0.01	
Pyridaben	0.01	
Pyridaphenthion	0.01	
Pyridate	0.01	
Pyrifenox	0.01	
Pyrimethanil	0.01	0.02
Pyriproxyfen	0.01	
Quinalphos	0.01	

Active Substance, to be continued	LOQ LC-MS/MS [mg/kg]	LOQ GC-MS(/MS) [mg/kg]
Quinoxifen	0.01	
Rotenone	0.01	
S421		0.01
Simazine	0.01	
Spinosad	0.01	
Spirodiclofen	0.02	
Spiromesifen	0.02	0.02
Spiroxamine	0.01	
Sulfentrazone	0.05	
Sulfotep	0.02	
Sulprofos		0.01
Tebuconazole	0.02	
Tebufenozide	0.01	
Tebufenpyrad	0.01	
Tecnazene		0.01
Teflubenzuron	0.01	
Tefluthrin		0.01
Tepraloxymid	0.01	
Terbufos		0.01
Terbumeton	0.01	
Terbutryne		0.02
Terbutylazine	0.01	
Tetrachlorvinphos		0.02
Tetraconazole	0.01	
Tetradifon		0.01
Tetramethrin		0.01
Tetramethrin I		0.01
Tetramethrin II	0.01	0.01
Tetrasul		0.07
Thiabendazole	0.01	
Thiacloprid	0.01	
Thiamethoxam	0.01	
Thiodicarb	0.01	
Thiofanox	0.02	
Thiofanox-sulfone	0.01	
Thiofanox-sulfoxid	0.02	
Thiophanat-methyl	0.04	
Tolclofos-methyl	0.05	0.01
Tolyfluanid		0.01
Tralkoxydim	0.01	0.02
Transfluthrin		0.01
Triadimefon	0.01	
Triadimenol	0.02	
Tri-Allate		0.01
Triazamate	0.04	
Triasulfuron	0.01	
Triazophos		0.01
Tribenuron-methyl	0.03	
Trichlorfon	0.02	

Active Substance, to be continued	LOQ LC-MS/MS [mg/kg]	LOQ GC-MS(MS) [mg/kg]
Trichloronate		0.01
Tricyclazole	0.01	
Trifloxystrobin	0.01	
Triflumizole	0.01	
Triflumuron	0.03	
Trifluralin		0.01
Triflusulfuron-methyl	0.01	
Triforine	0.02	
Triticonazole	0.01	
Uniconazole-P		0.02
Vinclozolin		0.01
Zoxamide	0.01	