intertek
Total Quality. Assured.

Covitar

PESTICIDE MULTIRESIDUE METHOD

SCOPE OF ACTIVE SUBSTANCES IN HONEY, SYRUPS (AGAVE, COCONUT, MAPLE) AND SUGAR

Substance name	Limit of quantification (LOQ) [mg/kg]
2	
2,4-D[1]	0.01
4	
4,4-Dibromobenzophenone[2]	0.01
4,4-Dichlorobenzophenone[2]	0.01
A	
Acephate[1, 2]	0.01
Acequinocyl[1]	0.01
Acetamiprid[1]	0.01
Acibenzolar-acid[1]	0.01
Acibenzolar-S-methyl[1]	0.01
Aclonifen[2]	0.01
Acrinathrin[2]	0.01
Alachlor[2]	0.01
Aldicarb[1]	0.01
Aldicarb-sulfone (Aldoxycarb)[1]	0.01
Aldicarb-sulfoxide[1]	0.01
Aldrin[2]	0.01
Allethrin[2]	0.01
Amitraz (incl. rel. metabolites)[1]	0.01
Amitraz (metabolite DMA)[1]	0.01
Amitraz (metabolite DMF)[1,2]	0.01
Amitraz (metabolite DMPF)[1]	0.01
Avermectin B1a[1]	0.01
Avermectin B1b[1]	0.01
Azinphos-ethyl[1]	0.01
Azinphos-methyl[1]	0.01
Azoxystrobin[1]	0.01
B	
Benalaxyl[1]	0.01
Benalaxyl-M[1]	0.01
Benalaxyl (sum of isomers)[1]	
Benfluralin[2]	0.01
Benfuracarb[1]	0.01
Benomyl[1]	0.01
Bifenazate[1,2]	0.01
Bifenazate-diazene[1]	0.01
Bifenazate (incl. Bifenazate-diazene)[1,2]	
Bifenthrin (sum of isomers)[2]	0.01
Binapacryl[2]	0.01
Biphenyl[2]	0.01
Bitertanol (sum of isomers)[1]	0.01
Boscalid[1]	0.01
Bromacil[1]	0.01
Bromophos (-methyl)[2]	0.01
Bromophos-ethyl[2]	0.01
Bromopropylate [2]	0.01
Bromuconazole (sum of diastereoisomers)[1]	0.01
Bupirimate[1]	0.01
Buprofezin[1]	0.01
C	
Cadusafos[2]	0.01
Captan[2]	0.01
Carbaryl[1]	0.01
Carbendazim[1]	0.01
Carbetamide (sum of isomers)[1]	0.01
Carbofuran[1]	0.01
Carbofuran (incl. Metabolites calc. as Carbofuran)	0.01
Carbofuran, 3-hydroxy[1]	0.01
Carbophenothion (-ethyl)[2]	0.01
Carbophenothion-methyl[2]	0.01
Carbosulfan[1]	0.01
Chlordane, cis- (alpha-)[2]	0.01
Chlordane, Oxy-[2]	0.01
Chlordane, trans- (gamma-)[2]	0.01
Chlorfenapyr[2]	0.01
Chlorfenson[2]	0.01
Chlorfenvinphos[2]	0.01
Chlormephos[2]	0.01
Chlorobenzilate[2]	0.01
Chloroneb[2]	0.01
Chloropropylate[2]	0.01
Chlorothalonil[2]	0.01
Chloroxuron[1]	0.01
Chlorpropham[2]	0.01
Chlorpyrifos (-ethyl)[2]	0.01
Chlorpyrifos-methyl[2]	0.01
Chlorthal-dimethyl[2]	0.01
Chlorthion[2]	0.01
Chlorthiophos (sum of isomers)[2]	0.01
Chlozolinate[2]	0.01
Clofentezine[1]	0.01
Clomazone[1]	0.01
Clopyralid[1]	0.01
Clothianidin[1]	0.01
Coumaphos[1, 2]	0.01
Cyanofenphos[2]	0.01
Cyanophos[2]	0.01
Cyantraniliprole[1]	0.01
Cyfluthrin (sum of isomers)[2]	0.01
Cyhalothrin, -lambda[2]	0.01
Cymiazole[2]	0.01
Cymoxanil[1]	0.01
Cypermethrin (sum of isomers)[2]	0.01
Cyproconazole[1]	0.01
Cyprodinil[1]	0.01
Cyromazine[1]	0.01
D	
Daminozide[1]	0.01
DDD, o,p'-[2]	0.01
DDD, p,p'-[2]	0.01
DDE, o,p'-[2]	0.01
DDE, p,p'-[2]	0.01
DDT, o,p'-[2]	0.01
DDT, p,p'-[2]	0.01
DEET (Diethyltoluamid)[1]	0.01
Deltamethrin[2]	0.01
Demeton-S-methyl[1]	0.01
Demeton-S-methyl-sulfone[1]	0.01
Demeton-S-methyl-sulfoxide (Oxydemeton-S-methyl)[1]	0.01
Diafenthiuron[1]	0.01
Diazinon[2]	0.01
Dichlobenil (2,6-Dichlorobenzonitrile, DCBN)[2]	0.01
Dichlofenthion[2]	0.01
Dichlofluanid[2]	0.01
Dichlorvos[2]	0.01
Dicloran[2]	0.01
Dicofol, p,p-[2]	0.01
Dieldrin[2]	0.01
Diethofencarb[1]	0.01
Difenoconazole[1]	0.01
Diflubenzuron[1]	0.01
Diflufenican[2]	0.01
Dimethachlor[1]	0.01
Dimethoate[1]	0.01
Dimethomorph[1]	0.01
Dimoxystrobin[1]	0.01
Diniconazol[1]	0.01
Dinotefuran[1]	0.01
Diphenylamin[2]	0.01
Disulfuton[1]	0.01
Disulfuton-sulfone[1]	0.01
Disulfuton-sulfoxide[1]	0.01
Ditalimfos[2]	0.01
Dithianon[1]	0.01
Diuron[1]	0.01
DMST (Tolylfluanid metabolite)[2]	0.01
Dodine[1]	0.01
E	
Endosulfan, -alpha[2]	0.01
Endosulfan, -beta[2]	0.01
Endosulfan-sulfate[2]	0.01
Endosulfan (sum of isomers expressed as Endosulfan)	
Endrin[2]	0.01
EPN[2]	0.01
Epoxiconazole[1]	0.01
Ethiofencarb[1]	0.01
Ethiofencarb-sulfone[1]	0.01
Ethiofencarb-sulfoxide[1]	0.01
Ethion[2]	0.01
Ethoprophos[2]	0.01
Ethoxyquin[1]	0.01
Etofenprox[2]	0.01
Etridiazole[2]	0.01
Etrimfos[2]	0.01
F	
Famoxadone[1]	0.01
Famphur[2]	0.01
Fenamiphos[1]	0.01
Fenamiphos-sulfone[1]	0.01
Fenamiphos-sulfoxide[1]	0.01
Fenarimol[1]	0.01
Fenazaquin[1]	0.01
Fenbuconazole[1]	0.01
Fenchlorphos[2]	0.01
Fenchlorphos-oxon[2]	0.01
Fenchlorphos (sum of Fenchlorphos and Fenchlorphos-oxon calc. as Fenchlorphos)[2]	
Fenhexamid[1]	0.01
Fenitrothion[2]	0.01
Fenoxycarb[1]	0.01
Fenpropathrin[2]	0.01
Fenpropimorph[1]	0.01
Fenpyroximate[1]	0.01
Fenson[2]	0.01

Fensulfothion[2]	0.01
Fensulfothion-oxon[1]	0.01
Fensulfothion-oxon-sulfone[1]	0.01
Fensulfothion-sulfone[1]	0.01
Fensulfothion (sum of isomers calculated as Fensulfothion)[1,2]	
Fenthion[1]	0.01
Fenthion-oxon[1]	0.01
Fenthion-oxon-sulfone[1]	0.01
Fenthion-oxon-sulfoxide[1]	0.01
Fenthion-sulfone[1]	0.01
Fenthion-sulfoxide[1]	0.01
Fenthion (fenthion and its oxygen analogue, sulfoxides and sulfone expr. as parent)	
Fenvalerate/Esfenvalerate (sum of isomers)[2]	0.01
Fipronil[2]	0.002
Fipronil-sulfone[2]	0.002
Fipronil (sum of Fipronil + sulfone metabolite expr. as Fipronil)[2]	
Fluazifop-P[1]	0.01
Fluazifop-P-butyl[1]	0.01
Fluazinam[1]	0.01
Fluchloralin[2]	0.01
Flucythrinate (sum of isomers)[2]	0.01
Fludioxonil[1]	0.01
Flufenoxuron[1]	0.01
Fluopyram[1]	0.01
Flupyradifurone[1]	0.01
Fluquinconazole[1]	0.01
Flusilazole[1]	0.01
Flutriafol[1]	0.01
Fluvalinate, Tau-[2]	0.01
Fluxapyroxad[1]	0.01
Folpet[2]	0.01
Fonofos[1]	0.01
Formothion[2]	0.01
Furathiocarb[2]	0.01
H	
Halfenprox[2]	0.01
Haloxyfop[1]	0.01
HCH, alpha- (Hexachlorocyclohexane, alpha-BCH)[2]	0.01
HCH, beta- (Hexachlorocyclohexane, beta-BCH)[2]	0.01
HCH, delta- (Hexachlorocyclohexane, delta-BCH)[2]	0.01
HCH, epsilon- (Hexachlorocyclohexane, epsilon-BCH)[2]	0.01
Heptachlor[2]	0.01
Heptachlor epoxide, cis-[2]	0.01
Heptachlor epoxide, trans-[2]	0.01
Heptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)[2]	
Heptenophos[2]	0.01
Hexachlorobenzene (HCB)[2]	0.01
Hexaconazole[1]	0.01
Hexaflumuron[1]	0.01
Hexythiazox[1]	0.01
I	
Icaridin (Picaridin)[1]	0.01
Imazalil[1]	0.01
Imidacloprid[1]	0.01
Indoxacarb (sum of isomers)[1]	0.01
Iodofenphos[2]	0.01
Iprobenfos[2]	0.01
Iprodione[2]	0.01
Iprovalicarb[1]	0.01
Isazofos[2]	0.01
Isocarbofos[2]	0.01
Isodrin[2]	0.01
Isofenphos[2]	0.01
Isofenphos-methyl[1]	0.01
Isoproturon[1]	0.01
Isoxathion[2]	0.01
K	
Kresoxim-methyl[1]	0.01
L	
Leptophos[2]	0.01
Lindane (gamma-HCH, gamma-BCH)[2]	0.01
Linuron[1]	0.01
Lufenuron[1]	0.01
M	
Malaoxon[1]	0.01
Malathion[1]	0.01
Matrine[1]	0.01
Mecarbam[2]	0.01
Mefentrifluconazol[1]	0.01
Mepanipyrim[1]	0.01
Mepronil[1]	0.01
Mesotrione[1]	0.01
Metalaxyl[1]	0.01
Metalaxyl-M[1]	0.01
Metalaxyl (sum of isomers)[1]	
Metamitron[1]	0.01
Metazachlor[1]	0.01
Methacrifos[2]	0.01
Methamidophos[1, 2]	0.01
Methidathion[2]	0.01
Methiocarb[1]	0.01
Methiocarb-sulfone[1]	0.01
Methiocarb-sulfoxide[1]	0.01
Methomyl[1]	0.01
Methoxychlor[2]	0.01
Methoxyfenozide[1]	0.01
Metobromuron[1]	0.01
Metolcarb[1]	0.01
Metoxuron[1]	0.01
Metribuzin[1]	0.01
Mevinphos (sum of E- and Z-isomers)[2]	0.01
Mirex[2]	0.01
Monocrotophos[2]	0.01
Monolinuron[1]	0.01
Myclobutanil[1]	0.01
N	
Nitenpyram[1]	0.01
Nitrapyrin[2]	0.01
Nitrofen[2]	0.01
Nuarimol[1]	0.01
O	
Omethoate[1]	0.01
Oxadixyl[1]	0.01
Oxamyl[1]	0.01
Oxymatrine[1]	0.01
P	
Paraoxon (-ethyl)[2]	0.01
Paraoxon-methyl[2]	0.01
Parathion (-ethyl)[2]	0.01
Parathion-methyl[2]	0.01
Penconazole[1]	0.01
Pencycuron[1]	0.01
Pendimethalin[2]	0.01
Pentachloroaniline[2]	0.01
Pentachloroanisole[2]	0.01
Permethrin (sum of isomers)[2]	0.01
Phenthoate[2]	0.01
Phenylphenol, 2- (o-Phenylphenol)[2]	0.01
Phorate[2]	0.01
Phorate-sulfone[2]	0.01
Phorate-sulfoxide[2]	0.01
Phosalone[2]	0.01
Phosmet[2]	0.01
Phosmet-oxon[2]	0.01
Phosmet (phosmet and phosmet oxon expressed as phosmet)[2]	
Phosphamidon[2]	0.01
Piperonyl butoxide[2]	0.01
Pirimicarb[1]	0.01
Pirimicarb, Desmethyl-[1]	0.01
Pirimicarb, Desmethylformamido-[1]	0.01
Pirimiphos-ethyl[2]	0.01
Pirimiphos-methyl[2]	0.01
Prochloraz[1]	0.01
Prochloraz BTS44595[1]	0.01
Prochloraz BTS44596[1]	0.01
Prochloraz (sum of prochloraz, BTS 44595 and BTS 44596, expressed as prochloraz)	
Procymidone[2]	0.01
Profenofos[2]	0.01
Profluralin[2]	0.01
Propamocarb[1]	0.01
Propargite[1]	0.01
Propetamphos[2]	0.01
Propiconazole[1]	0.01
Propoxur[1]	0.005
Propyzamide[1]	0.01
Prothioconazole[1]	0.01
Prothioconazole-Desthio[1,2]	0.01
Prothioconazole: Prothioconazole-desthio(sum of isomers)[1,2]	
Prothiofos[2]	0.01
Pymetrozine[1]	0.01
Pyraclostrobin[1]	0.01
Pyrazophos[2]	0.01
Pyridaben[1]	0.01
Pyridaphenthion[1]	0.01
Pyrifenox[1]	0.01
Pyrimethanil[1]	0.01
Pyriproxyfen[1]	0.01
Q	
Quinalphos[2]	0.01
Quinclorac[1]	0.01
Quinoxyfen[1]	0.01
Quintozene[2]	0.01
R	
Rotenone[1]	0.01
S	
S 421 (Octachlorodipropyl ether)[2]	0.01
Spinosad (sum of isomers, Spinosyn A and Spinosyn D)[1]	0.01
Spirodiclofen[1]	0.01
Spiromesifen[1]	0.01
Spirotetramat[1]	0.01
Spirotetramat-enol[1]	0.01
Spirotetramat-enol-glucoside[1]	0.01
Spirotetramat-ketohydroxy[1]	0.01
Spirotetramat-monohydroxy[1]	0.01
Spirotetramat (sum of isomers calculated as Spirotetramat)	
Spiroxamine (sum of isomers)[1]	0.01
Sulfotep[2]	0.01
Sulfoxaflor[1]	0.01
Sulprofos[2]	0.01
T	
Tebuconazole[1]	0.01
Tebufenozide[1]	0.01
Tebufenpyrad[1]	0.01
Tecnazene[2]	0.01
Teflubenzuron[1]	0.01
Tefluthrin[2]	0.01
Terbufos[2]	0.01
Terbutylazine[1]	0.01
Tetrachlorvinphos[2]	0.01
Tetraconazole[1]	0.01

Tetradifon[2]	0.01
Tetrahydrophthalimid (THPI)[2]	0.01
Tetramethrin[2]	0.01
Tetrasul[2]	0.01
Thiabendazole[1]	0.01
Thiacloprid[1]	0.01
Thiamethoxam[1]	0.01
Thiodicarb[1]	0.01
Thionazin[2]	0.01
Thiophanat-methyl[1]	0.01
Tolclofos-methyl[2]	0.01
Tolylfluanid[2]	0.01
Transfluthrin[2]	0.01
Triadimefon[1]	0.01
Triadimenol[1]	0.01
Triallate[2]	0.01
Triazophos[2]	0.01
Trichlorfon[1]	0.01
Trichloronat[2]	0.01
Trifloxystrobin[1]	0.01
Triflumizole[1]	0.01
Trifluralin[2]	0.01
Triforine[1]	0.01

V

Vinclozolin[2]	0.01

Technical equipment

[1]: LC-MS/MS
[2]: GC-MS/MS

Method

ASU § 64 LFGB L 00.00-115 (DIN EN 15662), QuEChERS

Additional residue analyses (included in pesticide multiresidue method)

Bee treatment agents by GC-MS/MS
Neonicotinoide by LC-MS/MS

Additional residue analyses (not included in pesticide multiresidue method)

Chlorate, Perchlorate by LC-MS/MS
Chlormequat, Mepiquat by LC-MS/MS
Diquat, Paraquat by LC-MS
Dithiocarbamates by GC-MS/MS
Ethephon by LC-MS/MS
Fentin by LC-MS/MS
Flumethrin by LC-MS/MS
Fosetyl-Al, Phosphonic acid by LC-MS/MS
Glyphosate (incl. AMPA), Glufosinate by LC-MS/MS
Maleic hydrazide by LC-MS/MS
Nicotine by LC-MS/MS
Organotin-Pesticides by LC-MS/MS
Phenoxyalkanoic acids by LC-MS/MS
Phosphane by GC-MS/MS
Quaternary ammonium compounds (QAVs) by LC-MS/MS
Beerepellents, wax moth control agents by GC-MS/MS
Total Inorganic Bromide, Bromate by LC-MS/MS

valid from 01.07.2023

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