

APO_LI_006 (Version: 03/17.02.2016)
Screening auf Pestizidrückstände in Lebensmitteln und pflanzlichen Rohstoffen
Screening for pesticides in foodstuffs and plant raw materials

Pesticide Common Names [Limits Ph.Eur.]		LoQ
Acephate [0.1]	LC	0.01
Acibenzolar-S-methyl	GC	0.04
Acrinathrin	GC	0.04
Alachlor [0.05]	GC	0.04
Aldicarb	LC	0.01
(sum of aldicarb, aldicarb-sulfoxid, aldicarb-sulfon)		
Aldrin	GC	0.04
Aldrin + Dieldrin [0.05]	GC	0.04
Ametryn	GC	0.04
Amidosulfuron	LC	0.01
Anilazine	GC	0.04
Atrazine	LC	0.01
Azinphos-ethyl [0.1]	GC	0.04
Azinphos-methyl [1]	GC	0.04
Azoxystrobin	LC	0.01
Benalaxyl	GC	0.04
Bendiocarb	LC	0.01
Benfluralin	GC	0.04
Benfuracarb	LC	0.01
Bifenoxy	GC	0.04
Bifenthrin	GC	0.04
Biphenyl	GC	0.04
Bromocyclofenox	GC	0.04
Bromophos-ethyl [0.05]	GC	0.04
Bromophos-methyl [0.05]	GC	0.04
Bromopropylate [3]	GC	0.04
Bupirimate	LC	0.01
Butafenacil	GC	0.04
Butocarboxim	LC	0.01
Butoxycarboxim	LC	0.01
Captan	GC	0.1
Carbaryl	LC	0.01
Carbendazim	LC	0.01
Carbofenthiol	GC	0.04
Carbofuran	LC	0.01
Carbosulfan	GC	0.04
Chinomethionat	GC	0.04
Chlordane [0.05]	GC	0.04
(sum of cis-chlordane, trans-chlordane, oxychlordane)		
Chlorfenapyr	GC	0.04
Chlorfenson	GC	0.04
Chlorfenvinphos [0.5]	GC	0.04
Chlormephot	GC	0.04
Chlorobenzilate	GC	0.04
Chlorothalonil	GC	0.04
Chlorpropham	GC	0.04
Chlorpyrifos-ethyl [0.2]	GC	0.04
Chlorpyrifos-methyl [0.1]	GC	0.04
Chlorsulfuron	LC	0.01
Chlorthalidimethyl [0.01]	GC	0.01
Chlorthiophos	GC	0.04
Chlozolinate	GC	0.04
Cinidon-ethyl	GC	0.04
Cinosulfuron	LC	0.01
Clofentezine	LC	0.01
Coumaphos	GC	0.04
Cyanofenphos	GC	0.04
Cyfluthrin + isomers (sum of) [0.1]	GC	0.04
Cyhalothrin (λ-) [1]	GC	0.04
Cypermethrin + isomers (sum of)[1]	GC	0.04

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Cyprodinil	LC	0.01
Daminozid	LC	0.01
DDT [1]	GC	0.04
(sum of 2,4'-DDE, 4,4'-DDE, 2,4'-DDT, 4,4'-DDT, 2,4'-TDE, 4,4'-TDE)		
Deltamethrin [0.5]	GC	0.04
Demeton-S-methyl	GC	0.04
Demeton-S-methylsulfon	LC	0.01
Desethylatrazine	LC	0.01
Desisopropylatrazine	LC	0.01
Dialifos	GC	0.04
Diazinon [0.5]	GC	0.04
Dibromobenzophenone (4,4-)	GC	0.04
Dichlobenil	GC	0.04
Dichlofenthiol	GC	0.04
Dichlofluanid [0.1]	GC	0.04
Dichloroaniline (3,5-)	GC	0.04
Dichlorobenzophenon (4,4-)	GC	0.04
Dichlorvos [1]	GC	0.04
Dicloran	GC	0.04
Dicofol [0.5]	GC	0.04
Dicrotophos	GC	0.04
Dieldrin	GC	0.04
Difenoconazole	GC	0.04
Dimethipin	GC	0.04
Dimethoate	LC	0.01
Dimethoate + Omethoate [0.1]	LC	0.01
Dimethomorph	LC	0.01
Diphenylamine	GC	0.04
Disulfoton	GC	0.04
Ditalimfos	GC	0.04
Dithiopyr	GC	0.04
Diuron	LC	0.01
Endosulfan [3]	GC	0.04
(sum of α-endosulfan, β-endosulfan, endosulfan sulfate)		
Endrin [0.05]	GC	0.04
EPN	GC	0.04
Epoxiconazole	GC	0.04
Ethiofencarb	LC	0.01
(sum of ethiofencarb, ethiofencarb-sulfon, ethiofencarbsulf-oxid)		
Ethion [2]	GC	0.04
Ethoprophos	GC	0.04
Etofenprox	GC	0.04
Etridiazole	GC	0.04
Etrimfos [0.05]	GC	0.04
Famoxadone	GC	0.04
Fenamiphos	GC	0.04
Fenazox	GC	0.04
Fenchlorophos + Fenchlorophos-oxon [0.1]	GC	0.04
Fenhexamid	LC	0.01
Fenitrothion [0.5]	GC	0.04
Fenobucarb	GC	0.04
Fenoxycarb	LC	0.01
Fenpiclonil	GC	0.04
Fenpropathrin [0.03]	GC	0.01
Fenpropidin	GC	0.04
Fenpropimorph	LC	0.01
Fenson	GC	0.04

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Fensulfotiothion [0.05]	LC	0.01
(sum of fensulfotiothion, fensulfotiothion-oxon, fensulfotiothion-oxonsulfon, fensulfotiothion-sulfon)		
Fenthion [0.05]	GC	0.04
(sum of fenthion, fenthion-oxon, fenthion-oxon-sulfon, fenthion-sulfon, fenthion-sulfoxid)	LC	
Fenvalerate [1.5]	GC	0.04
Flonicamid	GC	0.04
Fluazifop-P-butyl	LC	0.01
Flucytrinate [0.05]	GC	0.04
Fludioxonil	GC	0.04
Flufenoxuron	LC	0.01
Flumethrin	GC	0.04
Flumioxazin	GC	0.04
Fluquinconazol	GC	0.04
Fluvalinate (tau-) [0.05]	GC	0.04
Folpet	GC	0.04
Fonofos [0.05]	GC	0.04
Formothion	GC	0.04
Furathiocarb	LC	0.01
Halfenprox	GC	0.04
Haloxifop-ethoxyethyl	LC	0.01
Haloxifop-methyl	LC	0.01
Heptachlor [0.05]	GC	0.04
(sum of heptachlor, cis-heptachlor-epoxide, trans-heptachlor-epoxide)		
Heptenophos	GC	0.04
Hexachlorobenzene [0.1]	GC	0.04
Hexachlorocyclohexane [0.3]	GC	0.04
(sum of isomers α-HCH, β-HCH, δ-HCH, ε-HCH)		
Hexythiazox	LC	0.01
Hydroxycarbofuran (3-)	LC	0.01
Imazalil	LC	0.01
Imidacloprid	LC	0.01
Indoxacarb	GC	0.04
Iprodion	GC	0.04
Isocarbofens	GC	0.04
Isophenphos-ethyl	GC	0.04
Isophenphos-methyl	GC	0.04
Isopropalin	GC	0.04
Isoproturon	LC	0.01
Jodfenphos	GC	0.04
Kresoxim-methyl	GC	0.04
Lindan (γ-HCH) [0.6]	GC	0.04
Linuron	LC	0.01
Malathion + Malaoxon [1]	GC	0.04
Mecarbam [0.05]	GC	0.04
Mepanipyrim	GC	0.04
Mepronil	GC	0.04
Metalaxyl	LC	0.01
Metamitron	LC	0.01
Metazachlor	GC	0.04
Methacryfos [0.05]	GC	0.04
Methamidophos [0.05]	LC	0.01
Methidathion [0.2]	GC	0.04
Methiocarb	LC	0.01
Methomyl + Thiodicarb	LC	0.01
Methoxychlor [0.05]	GC	0.04

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Metolachlor	LC 0.01	Piperonyl butoxide [3]	GC 0.04	Spiroxamine	LC 0.01
Metrafenone	GC 0.04	Pirimicarb	LC 0.01	Sulfotep	GC 0.04
Metribuzin	GC 0.04	Pirimiphos-ethyl [0.05]	GC 0.04	Tebuconazole	LC 0.01
Metsulfuron-methyl	LC 0.01	Pirimiphos-methyl [4]	GC 0.04	Tebufenozide	LC 0.01
Mevinphos	LC 0.01	(sum of pirimiphos-methyl, N-desethyl-pirimiphos-methyl)		Tebufenpyrad	LC 0.01
Mirex [0.01]	GC 0.01	Procymidone [0.1]	GC 0.04	Tecnazene [0.05]	GC 0.04
Monocrotophos [0.1]	LC 0.01	Profenofos [0.1]	GC 0.04	Tefluthrin	GC 0.04
Myclobutanil	LC 0.01	Promecarb	LC 0.01	Tepaloxidym	GC 0.04
Nicosulfuron	LC 0.01	Propamocarb	LC 0.01	Terbufos	GC 0.04
Nitrofen	GC 0.04	Propargite	GC 0.04	Tetrachlorvinphos	GC 0.04
Nitrothal-isopropyl	GC 0.04	Propetamphos	GC 0.04	Tetradifon [0.3]	GC 0.04
Novaluron	GC 0.04	Propham	GC 0.04	Tetrahydrophtalimide (cis-1,2,3,6-)	GC 0.04
Omethoate	LC 0.01	Propoxur	LC 0.01	Tetramethrin	GC 0.04
Oxadixyl	GC 0.04	Propyzamide	GC 0.04	Tetrasul	GC 0.04
Oxamyl	LC 0.01	Prothiofos [0.05]	GC 0.04	Thiacloprid	LC 0.01
Oxydemeton-methyl + Demeton-methylsulfon	LC 0.01	Pymetrozine	LC 0.01	Thifensulfuron-methyl	LC 0.01
Oxyfluorfen	GC 0.04	Pyrazophos	GC 0.04	Thiodicarb	LC 0.01
Parathion-ethyl	GC 0.04	Pyrethrins [3]	GC 0.2	Thiofanox-sulfon + Thiofanox-sulfoxid	LC 0.01
Parathion-ethyl + Paraoxon-ethyl [0.5]	LC	(sum of cinerin I + II, jasmolin I + II, pyrethrin I + II)		Thiometon	GC 0.04
Parathion-methyl	GC 0.04	Pyridafol	LC 0.01	Tolclofos-methyl	GC 0.04
Parathion-methyl + Paraoxon-methyl [0.2]	GC 0.04	Pyridate	LC 0.01	Tolyfluanid	LC 0.01
Penconazole	GC 0.04	Pyrimethanil	LC 0.01	Tralomehrin	GC 0.04
Pendimethalin [0.1]	GC 0.04	Quinalphos [0.05]	GC 0.04	Triadimenol + triadimefon	LC 0.01
Pentachloroanisole [0.01]	GC 0.01	Quinmerac	LC 0.01	Triallate	GC 0.04
Pentachlorobenzene	GC 0.04	Quinoxifen	LC 0.01	Triasulfuron	LC 0.01
Permethrin + isomers (sum of) [1]	GC 0.04	Quintozene [1]	GC 0.04	Triazophos	GC 0.04
Phenthoate	GC 0.04	(sum of quintozene, pentachloro aniline, methyl pentachlorophenyl sulfide)		Trichlorfon	GC 0.04
Phenylphenol (2-)	GC 0.04	Quizalofop-ethyl	LC 0.01	Trichloronate	GC 0.04
Phorate	GC 0.04	S-421 [0.02]	GC 0.01	Trifloxystrobin	LC 0.01
Phosalone [0.1]	GC 0.04	Silafluofen	GC 0.04	Trifluralin	GC 0.04
Phosmet [0.05]	GC 0.04	Spirodiclofen	GC 0.04	Trimethacarb	LC 0.01
Phosphamidon	GC 0.04	Spiromesifen	GC 0.04	Vamidotion	LC 0.01
Phthalimide (Folpet-Metabolit)	GC 0.04			Vinclozolin [0.4]	GC 0.01

LoQ [mg/kg]: Bestimmungsgrenze / Limit of Quantification

Die Bestimmungsgrenzen sind unter anderem von der Matrix abhängig und können im Einzelfall unterschiedlich ausfallen.

The Limit of Quantification depends, amongst others, on the matrix and can be different in particular cases.

GC = GC-MS/MS, LC = LC-MS/MS

Messunsicherheit: Messergebnisse sind immer mit einer Messunsicherheit verbunden. Diese Tatsache kann bei der Prüfung auf Einhaltung von Spezifikationen oder Grenzwerten von grosser Bedeutung sein. Falls der Auftraggeber auf eine Abschätzung der Messunsicherheit angewiesen ist, können die entsprechenden Informationen bei Labor Veritas AG angefordert werden.

Measuring uncertainty: Measuring results always contain an element of uncertainty. This fact could be of great importance when testing for adherence to specifications or limiting values. If the client really needs an estimation of the degree of measuring uncertainty, the relevant information can be requested from Labor Veritas AG.