

PESTICIDE & HERBICIDE RESIDUE ANALYSIS

EXTENDED PROFILE**

The **OMIC USA Extended Pesticide Profile** offers a combination of organophosphates, organochlorines, pyrethroids, carbamates and organonitrogen pesticides, including pesticides, both past and present, that are most commonly used worldwide. Utilizing Triple Quad Mass Spectrometry in conjunction with QuEChERS extraction procedure, we are offering a screen of 476 pesticides. The majority of the compounds have a 10 ppb Limit of Quantification (LOQ), where the LOQ is defined as ten times Signal to Noise (detection limit may be influenced by sample type). Some analytes may be excluded from the screen due to specific matrix interferences.

COMPOUND	LOQ (ppm)	COMPOUND	LOQ (ppm)	COMPOUND	LOQ (ppm)
1,4-Dimethylnaphthalene	0.01	Butachlor	0.01	CPMC (Etrofol)	0.01
2-(1-Naphthyl) Acetamide	0.01	Butafenacil	0.01	Cumyluron	0.01
2,3,5,6-Tetrachloroaniline	0.01	Butamifos	0.01	Cyanazine	0.01
2,4-Dichlorobenzophenone*	0.01	Butralin	0.01	Cyanophenphos	0.01
2,6-Diisopropylnaphthalene	0.02	Butylate	0.01	Cyanophos	0.01
4,4-Dichlorobenzophenone*	0.01	Cadusafos	0.01	Cyantraniliprole	0.01
Abamectin	0.01	Cafenstrole	0.01	Cyazofamid	0.01
Acephate	0.01	Captan	0.05	Cycloate	0.01
Acetamiprid	0.01	Captan Metabolite (THPI)	0.05	Cyflufenamid	0.01
Acetochlor	0.01	Carbaryl	0.01	Cyfluthrin	0.01
Acibenzolar-S-methyl	0.01	Carbendazim	0.01	Cyhalofop-butyl	0.01
Acrinathrin	0.01	Carbetamide	0.01	Cyhalothrin (lambda)	0.01
Alachlor	0.01	Carbofuran	0.01	Cymoxanil	0.01
Aldicarb	0.01	Carbofuran-hydroxy-3	0.01	Cypermethrin	0.01
Aldicarb-sulfone	0.01	Carbofuran-keto-3	0.01	Cyproconazole	0.01
Aldicarb-sulfoxide	0.01	Carbophenothion	0.01	Cyprodinil	0.01
Aldrin	0.01	Carboxin	0.01	Daimuron	0.01
Ametryn	0.01	Carfentrazone-ethyl	0.01	DDD	0.01
Amitraz	0.01	Carpropamid	0.01	DDE	0.01
Anilofos	0.01	Chlorantraniliprole	0.01	DDT	0.01
Atrazine	0.01	Chlorbenside	0.01	Deltamethrin	0.01
Azaconazole	0.01	Chlorbufam	0.01	Demeton O & S	0.01
Azamethiphos	0.01	Chlordane (cis)	0.01	Demeton-S-methyl	0.01
Azinphos-ethyl	0.01	Chlordane (trans)	0.01	Desmedipham	0.02
Azinphos-methyl	0.01	Chlorethoxyfos	0.01	Dialifos	0.01
Azoxystrobin	0.01	Chlorfenapyr	0.01	Di-allate	0.01
Benalaxyl	0.01	Chlorfenson	0.01	Diazinon	0.01
Bendiocarb	0.01	Chlorfenvinphos	0.01	Dichlobenil	0.01
Benfluralin	0.01	Chloridazon	0.01	Dichlofenthion (ECP)	0.01
Benfuresate	0.01	Chlornitrofen	0.01	Dichlormid	0.01
Benoxacor	0.01	Chlorobenzilate	0.01	Dichlorvos (DDVP)	0.01
Bensulide	0.01	Chlorobenzuron	0.01	Diclobutrazol	0.01
Benthiavalicarb-isopropyl	0.01	Chloroneb	0.01	Diclocymet	0.01
Benzobicyclon	0.01	Chloroxuron	0.01	Diclofop-methyl	0.01
Benzofenap	0.01	Chlorpropham	0.01	Diclomezine	0.01
BHC (alpha)	0.01	Chlorpyrifos	0.01	Dicloran	0.01
BHC (beta)	0.01	Chlorpyrifos-methyl	0.01	Dicrotophos	0.01
BHC (delta)	0.01	Chlorthal-dimethyl	0.01	Dieldrin	0.01
Bifenox	0.01	Chlorthiofos	0.01	Diethofencarb	0.01
Bifenthrin	0.01	Chlozolate	0.01	Difenoconazole	0.01
Bitertanol	0.01	Cinidon-ethyl	0.01	Diflubenzuron	0.01
Boscalid	0.01	Cinmethylin	0.01	Diflufenican	0.01
Bromacil	0.01	Clodinafop-propargyl	0.01	Dimepiperate	0.01
Bromobutide	0.01	Clofentezine	0.01	Dimethachlor	0.01
Bromophos-ethyl	0.01	Clomazone	0.01	Dimethametryn	0.01
Bromophos-methyl	0.01	Clomeprop	0.01	Dimethenamid	0.01
Bromopropylate	0.01	Cloquintocet-mexyl	0.01	Dimethipin	0.02
Bupirimate	0.01	Clothianidin	0.01	Dimethoate	0.01
Buprofezin	0.01	Coumafos / Coumaphos	0.01	Dimethomorph	0.01

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Dimethylvinphos	0.01	Fluazifop-butyl	0.01	Isofetamid	0.01
Diniconazole	0.01	Fluazuron	0.01	Isoprocarb	0.01
Dinotefuran	0.01	Flucythrinate	0.01	Isoprothiolane	0.01
Dioxathion	0.01	Fludioxonil	0.01	Isopyrazam	0.01
Diphenamid	0.01	Fluensulfone	0.01	Isotianil	0.01
Diphenylamine	0.01	Flufenacet	0.01	Isouron	0.01
Disulfoton	0.01	Flufenpyr-ethyl	0.01	Isoxaben	0.01
Disulfoton-sulfone	0.01	Fluometuron	0.01	Isoxadifen-ethyl	0.01
Dithiopyr	0.01	Fluopicolide	0.01	Isoxaflutole	0.01
Diuron	0.01	Fluopyram	0.01	Isoxathion	0.01
Edifenphos	0.01	Flupyradifurone	0.01	Kresoxim-methyl	0.01
Endosulfan (alpha)	0.01	Fluquinconazole	0.01	Lenacil	0.01
Endosulfan (beta)	0.01	Fluridone	0.01	Lindane (gamma-BHC)	0.01
Endosulfan-sulfate	0.02	Flusilazole	0.01	Linuron	0.01
Endrin	0.01	Flusulfamide	0.01	Lufenuron	0.01
EPN	0.01	Fluthiacet-methyl	0.01	Malathion	0.01
Epoxiconazole	0.01	Flutianil	0.01	Mandipropamid	0.01
EPTC	0.01	Flutolanil	0.01	Mecarbam	0.01
Esfenvalerate	0.02	Flutriafol	0.01	Mefenacet	0.01
Esprocarb	0.01	Fluvalinate	0.01	Mefenpyr-Diethyl	0.01
Ethalfuralin	0.01	Fluxapyroxad	0.01	Mepanipyrim	0.01
Ethion	0.01	Folpet	0.05	Mephosfolan	0.01
Ethiprole	0.01	Folpet Metab. (Phthalimide)	0.05	Mepronil	0.01
Ethofumesate	0.01	Fonofos (Dyfonate)	0.01	Metaflumizone	0.01
Ethoprophos (Ethoprop)	0.005	Forchlorfenuron	0.01	Metalaxyl / Mefenoxam	0.01
Ethychlozate	0.01	Fosthiazate	0.01	Metconazole	0.01
Etobenzanid	0.01	Fthalide	0.01	Methabenzthiazuron	0.01
Etopenprox	0.01	Fuberidazole	0.01	Methacrifos	0.01
Etoxazole	0.01	Furametpyr	0.01	Methamidophos	0.01
Etridiazole	0.01	Furathiocarb	0.01	Methidathion	0.01
Etrimfos	0.01	Furilazole	0.01	Methiocarb	0.01
Famoxadone	0.01	Halfenprox	0.01	Methiocarb-sulfone	0.01
Famphur	0.01	Haloxifop-methyl	0.01	Methiocarb-sulfoxide	0.01
Fenamidone	0.01	Heptachlor	0.01	Methomyl	0.01
Fenamiphos	0.01	Heptachlor-epoxide	0.01	Methoprene	0.01
Fenamiphos-sulfone	0.01	Heptenophos	0.01	Methoxychlor	0.01
Fenarimol	0.01	Hexachlorobenzene	0.01	Methoxyfenozide	0.01
Fenazaquin	0.01	Hexaconazole	0.01	Metolachlor	0.01
Fenbuconazole	0.01	Hexaflumuron	0.01	Metolcarb	0.01
Fenchlorphos (Ronnell)	0.01	Hexazinone	0.01	Metominostrobin	0.01
Fenhexamid	0.01	Hexythiazox	0.01	Metrafenone	0.01
Fenitrothion	0.01	Hydroprene	0.01	Metribuzin	0.01
Fenobucarb	0.01	Imazalil	0.01	Mevinphos	0.01
Fenothiocarb	0.01	Imazamethabenz-ME	0.01	MGK 264	0.01
Fenoxanil	0.01	Imibenconazole	0.01	Mirex	0.01
Fenoxaprop-Ethyl	0.01	Imicyafos	0.01	Molinate	0.01
Fenoxycarb	0.01	Imidacloprid	0.01	Monocrotophos	0.01
Fenpropathrin	0.01	Inabenfide	0.01	Monolinuron	0.01
Fenpropimorph	0.01	Indoxacarb	0.01	Myclobutanil	0.01
Fenpyroximate	0.01	Ipconazole	0.01	Naphthalophos	0.01
Fensulfothion	0.01	Ipfencarbazone	0.01	Naproanilide	0.01
Fenthion	0.01	Iprobenfos	0.01	Napropamide	0.01
Fentrazamide	0.01	Iprodione	0.01	Nitenpyram	0.01
Ferimzone E	0.01	Iprovalicarb	0.01	Nitrofen	0.01
Ferimzone Z	0.01	Isazophos	0.01	Nitrothal-isopropyl	0.01
Fipronil	0.002	Isocarbophos	0.01	Nonachlor (cis)	0.02
Flamprop-methyl	0.01	Isofenphos	0.01	Nonachlor (trans)	0.02
Fonicamid	0.01	Isofenphos-methyl	0.01	Norflurazon	0.01

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COMPOUND	LOQ (ppm)	COMPOUND	LOQ (ppm)	COMPOUND	LOQ (ppm)
Novaluron	0.01	Propetamphos	0.01	Terbufos	0.01
Nuarimol	0.01	Propiconazole	0.01	Terbutylazine	0.01
Ofurace	0.01	Propisochlor	0.01	Terbutryn	0.01
Omethoate	0.01	Propoxur	0.01	Tetrachlorvinphos	0.01
o-Phenylphenol	0.05	Propyzamide	0.01	Tetraconazole	0.01
Orysastrobin	0.01	Prosulfocarb	0.01	Tetradifon	0.01
Oryzalin	0.01	Prothiofos	0.01	Tetramethrin	0.01
Oxadiazon	0.01	Pyraclofos	0.01	Thenylchlor	0.01
Oxadixyl	0.02	Pyraclonil	0.01	Thiabendazole	0.01
Oxamyl	0.01	Pyraclostrobin	0.01	Thiacloprid	0.01
Oxaziclomefone	0.01	Pyraflufen-ethyl	0.01	Thiamethoxam	0.01
Oxycarboxin	0.01	Pyrazolynate	0.01	Thiazopyr	0.01
Oxydemeton-methyl	0.01	Pyrazophos	0.01	Thidiazuron	0.01
Oxyfluorfen	0.01	Pyrazoxyfen	0.01	Thifluzamide	0.01
Paclobutrazol	0.01	Pyrethrins	0.05	Thiobencarb	0.01
Parathion	0.01	Pyribencarb	0.01	Tiadinil	0.01
Parathion-methyl	0.01	Pyributicarb	0.01	Tolclofos-methyl	0.01
Parbendazole	0.01	Pyridaben	0.01	Tralomethrin (as Deltamethrin)	0.01
Pebulate	0.01	Pyridafenthion	0.01	Triadimefon	0.01
Penconazole	0.01	Pyrifenox	0.01	Triadimenol	0.01
Pencycuron	0.01	Pyrifluquinazon	0.01	Tri-allate	0.01
Pendimethalin	0.01	Pyritalid	0.01	Triazophos	0.01
Penflufen	0.01	Pyrimethanil	0.01	Tribuphos	0.01
Penthiopyrad	0.01	Pyrimidifen	0.01	Trichlamide	0.01
Pentoxazone	0.01	Pyriminobac-methyl	0.01	Trichlorfon	0.01
Permethrin	0.01	Pyriproxyfen	0.01	Tricyclazole	0.01
Perthane	0.01	Pyroquilon	0.01	Tridiphane	0.01
Phenmedipham	0.01	Pyroxasulfone	0.01	Trifloxystrobin	0.01
Phenothiol (MCPA-thioethyl)	0.01	Quinalphos	0.01	Triflumizole	0.01
Phenothrin	0.01	Quinoclamine	0.01	Triflumuron	0.01
Phenthoate	0.01	Quinoxifen	0.01	Trifluralin	0.01
Phorate	0.01	Quintozene (PCNB)	0.01	Triforine	0.01
Phorate-sulfone	0.01	Quintozene Metab. (PCA)	0.01	Triticonazole	0.01
Phosalone	0.01	Quintozene Metab. (PCTA)	0.01	Uniconazole-P	0.01
Phosfolan	0.01	Quintozene Metab. (PeCB)	0.01	Vamidothion	0.01
Phosmet	0.01	Quizalofop-ethyl	0.01	Vinclozolin	0.01
Phosphamidon	0.01	Resmethrin	0.01	XMC	0.01
Phoxim	0.01	Salithion (Dioxabenzofos)	0.01	Xylycarb	0.01
Picolinafen	0.01	Sedaxane	0.01	Zoxamide	0.01
Piperonyl-butoxide	0.01	Sethoxydim	0.01		
Piperophos	0.01	Silafluofen	0.01		
Pirimicarb	0.01	Simazine	0.01		
Pirimioxyphos	0.01	Simeconazole	0.01		
Pirimiphos-ethyl	0.01	Simetryn	0.01		
Pirimiphos-methyl	0.01	Spinosad	0.01		
Pretilachlor	0.01	Spiromesifen	0.02		
Prochloraz	0.01	Sulfotep	0.01		
Procymidone	0.01	Sulprofos	0.01		
Prodiamine	0.01	TCMTB (Benthiazole)	0.01		
Profenofos	0.01	Tebuconazole	0.01		
Prohydrojasmon	0.02	Tebufenozide	0.01		
Promecarb	0.01	Tebufenpyrad	0.01		
Prometryn	0.01	Tebupirimfos (Phostebupirim)	0.01		
Propachlor	0.01	Tebuthiuron	0.01		
Propanil	0.01	Tecnazene	0.01		
Propaphos	0.01	Tefluthrin	0.01		
Propargite	0.01	TEPP	0.01		
Propazine	0.01	Terbacil	0.01		

* 2,4-Dichlorobenzophenone and 4,4-Dichlorobenzophenone are used as screening compounds for Dicolof.

** Profile compounds are subject to change without notice.