

# PESTICIDE & HERBICIDE RESIDUE ANALYSIS

## BASIC PROFILE\*\*

The **OMIC USA Basic Pesticide Profile** offers a combination of organophosphates, organochlorines, pyrethroids and some non-ionic herbicides. Utilizing Triple Quad Mass Spectrometry in conjunction with QuEChERS extraction procedure, we are offering a screen of 292 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)
2,3,5,6-Tetrachloroaniline	0.01	Chlorpyrifos-methyl	0.01	Disulfoton	0.01
2,4-Dichlorobenzophenone*	0.01	Chlorthal-dimethyl	0.01	Disulfoton-sulfone	0.01
4,4-Dichlorobenzophenone*	0.01	Chlorthiofos	0.01	Edifenphos	0.01
Acephate	0.01	Chlozolinate	0.01	Endosulfan (alpha)	0.01
Acetochlor	0.01	Cinidon-ethyl	0.01	Endosulfan (beta)	0.01
Acibenzolar-S-methyl	0.01	Clodinafop-propargyl	0.01	Endosulfan-sulfate	0.02
Acrinathrin	0.01	Clomeprop	0.01	Endrin	0.01
Alachlor	0.01	Cloquintocet-mexyl	0.01	EPN	0.01
Aldrin	0.01	Coumafos / Coumaphos	0.01	Epoxiconazole	0.01
Anilofos	0.01	CPMC (Etrifol)	0.01	EPTC	0.01
Atrazine	0.01	Cumyluron	0.01	Esfenvalerate	0.02
Azaconazole	0.01	Cyanazine	0.01	Ethalfuralin	0.01
Azamethiphos	0.01	Cyanophenphos	0.01	Ethion	0.01
Azinphos-ethyl	0.01	Cyanophos	0.01	Ethiprole	0.01
Azinphos-methyl	0.01	Cyflufenamid	0.01	Ethofumesate	0.01
Benfluralin	0.01	Cyfluthrin	0.01	Ethoprophos (Ethoprop)	0.005
Bensulide	0.01	Cyhalothrin (lambda)	0.01	Ethychlozate	0.01
Benzobicyclon	0.01	Cypermethrin	0.01	Etobenzanid	0.01
Benzofenap	0.01	Cyproconazole	0.01	Etofenprox	0.01
BHC (alpha)	0.01	Daimuron	0.01	Etoxazole	0.01
BHC (beta)	0.01	DDD	0.01	Etrimfos	0.01
BHC (delta)	0.01	DDE	0.01	Famoxadone	0.01
Bifenox	0.01	DDT	0.01	Famphur	0.01
Bifenthrin	0.01	Deltamethrin	0.01	Fenamidone	0.01
Bitertanol	0.01	Demeton O & S	0.01	Fenamiphos	0.01
Boscalid	0.01	Demeton-S-methyl	0.01	Fenamiphos-sulfone	0.01
Bromophos-ethyl	0.01	Desmedipham	0.02	Fenchlorphos (Ronnel)	0.01
Bromophos-methyl	0.01	Dialifos	0.01	Fenitrothion	0.01
Buprofezin	0.01	Diazinon	0.01	Fenoxanil	0.01
Butafenacil	0.01	Dichlofenthion (ECP)	0.01	Fenpropathrin	0.01
Butamifos	0.01	Dichlormid	0.01	Fensulfothion	0.01
Cadusafos	0.01	Dichlorvos (DDVP)	0.01	Fenthion	0.01
Cafenstrole	0.01	Diclobutrazol	0.01	Fentrazamide	0.01
Carbophenothion	0.01	Diclocymet	0.01	Flucythrinate	0.01
Carfentrazone-ethyl	0.01	Diclofop-methyl	0.01	Flufenacet	0.01
Chlorbenside	0.01	Diclomezine	0.01	Fluometuron	0.01
Chlordane (cis)	0.01	Dicloran	0.01	Fluopyram	0.01
Chlordane (trans)	0.01	Dicrotophos	0.01	Fluquinconazole	0.01
Chlorethoxyfos	0.01	Dieldrin	0.01	Fluidone	0.01
Chlorfenapyr	0.01	Difenoconazole	0.01	Flusilazole	0.01
Chlorfenson	0.01	Dimethachlor	0.01	Flusulfamide	0.01
Chlorfenvinphos	0.01	Dimethametryn	0.01	Fluthiacet-methyl	0.01
Chloridazon	0.01	Dimethoate	0.01	Flutolanil	0.01
Chlorobenzilate	0.01	Dimethylvinphos	0.01	Flutriafol	0.01
Chloroxuron	0.01	Diniconazole	0.01	Fluvalinate	0.01
Chlorpropham	0.01	Dioxathion	0.01	Fonofos (Dyfonate)	0.01
Chlorpyrifos	0.01	Diphenylamine	0.01	Forchlorfenuron	0.01

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COMPOUND	LOQ (ppm)	COMPOUND	LOQ (ppm)	COMPOUND	LOQ (ppm)
Fosthiazate	0.01	Omethoate	0.01	Quinalphos	0.01
Fthalide	0.01	o-Phenylphenol	0.05	Quinoclamine	0.01
Furilazole	0.01	Oxaziclofomefene	0.01	Quintozene (PCNB)	0.01
Halfenprox	0.01	Oxycarboxin	0.01	Quintozene Metab. (PCA)	0.01
Heptachlor	0.01	Oxydemeton-methyl	0.01	Quintozene Metab. (PeCB)	0.01
Heptachlor-epoxide	0.01	Oxyfluorfen	0.01	Quintozene Metab. (PCTA)	0.01
Heptenophos	0.01	Paclobutrazol	0.01	Resmethrin	0.01
Hexachlorobenzene	0.01	Parathion	0.01	Salithion (Dioxabenzofos)	0.01
Imazamethabenz-methyl-ester	0.01	Parathion-methyl	0.01	Silafluofen	0.01
Imibenzconazole	0.01	Penconazole	0.01	Simazine	0.01
Imicyafos	0.01	Pencycuron	0.01	Sulfotep	0.01
Inabenfide	0.01	Pendimethalin	0.01	Sulprofos	0.01
Ipconazole	0.01	Pentoxazone	0.01	TCMTB (Benthiazole)	0.01
Ipencarbazone	0.01	Permethrin	0.01	Tebuconazole	0.01
lprobenfos	0.01	Perthane	0.01	Tebufenpyrad	0.01
lprovalicarb	0.01	Phenmedipham	0.01	Tebupirimfos (Phostebupirim)	0.01
Isazophos	0.01	Phenothrin	0.01	Tebuthiuron	0.01
Isocarboxiphos	0.01	Phenthoate	0.01	Tecnazene	0.01
Isofenphos	0.01	Phorate	0.01	Tefluthrin	0.01
Isofenphos-methyl	0.01	Phorate-sulfone	0.01	TEPP	0.01
Isoprothiolane	0.01	Phosalone	0.01	Terbufos	0.01
Isouron	0.01	Phosolan	0.01	Tetrachlorvinphos	0.01
Isoxaflutole	0.01	Phosmet	0.01	Tetraconazole	0.01
Isoxathion	0.01	Phosphamidon	0.01	Tetradifon	0.01
Lenacil	0.01	Phoxim	0.01	Tetramethrin	0.01
Lindane (gamma-BHC)	0.01	Picolinafen	0.01	Thenylchlor	0.01
Malathion	0.01	Piperonyl-butoxide	0.01	Thiazopyr	0.01
Mecarbam	0.01	Piperophos	0.01	Thidiazuron	0.01
Mefenacet	0.01	Pirimioxyphos	0.01	Thifluzamide	0.01
Mefenpyr-Diethyl	0.01	Pirimiphos-ethyl	0.01	Tiadinil	0.01
Mephosfolan	0.01	Pirimiphos-methyl	0.01	Tolclofos-methyl	0.01
Metalaxyl / Mefenoxam	0.01	Pretilachlor	0.01	Tralomethrin (as Deltamethrin)	0.01
Metconazole	0.01	Prochloraz	0.01	Triazophos	0.01
Methabenzthiazuron	0.01	Procymidone	0.01	Tribuphos	0.01
Methacrifos	0.01	Profenofos	0.01	Trichlorfon	0.01
Methamidophos (Acephate Metab.)	0.01	Prohydrojasmon	0.02	Triflumizole	0.01
Methidathion	0.01	Propanil	0.01	Triflumuron	0.01
Methoprene	0.01	Propaphos	0.01	Trifluralin	0.01
Methoxychlor	0.01	Propetamphos	0.01	Triforine	0.01
Metolachlor	0.01	Propiconazole	0.01	Uniconazole-P	0.01
Metrafenone	0.01	Propisochlor	0.01	Vamidothion	0.01
Metribuzin	0.01	Propyzamide	0.01	Vinclozolin	0.01
Mevinphos	0.01	Prothiofos	0.01	Zoxamide	0.01
MGK 264	0.01	Pyralclofos	0.01		
Mirex	0.01	Pyrazolynate	0.01		
Monocrotophos	0.01	Pyrazophos	0.01		
Monolinuron	0.01	Pyrazoxyfen	0.01		
Myclobutanil	0.01	Pyrethrins	0.1		
Naphthalophos	0.01	Pyridaben	0.01		
Napropamide	0.01	Pyridafenthion	0.01		
Nitenpyram	0.01	Pyrifenox	0.01		
Nonachlor (cis)	0.02	Pyriftalid	0.01		
Nonachlor (trans)	0.02	Pyrimethanil	0.01		
Ofurace	0.01	Pyriproxyfen	0.01		

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

\*\* Profile compounds are subject to change without notice.