



**BENAKI
PHYTOPATHOLOGICAL
INSTITUTE**

Sc. Directorate: Pesticides Control and Phytopharmacy

Laboratory: Pesticide Residues

Information: Dr C. Anagnostopoulos

Kifissia, 14.02.2023

No.: ΥΠ63

Test report No: 56/2023

To:

Chondros George

Klisovis 12, 106 77, Athens

E-mail: info@soliexpo.gr

Topic: Test report of the analysis for the determination of pesticide residues in olive oil

Related document: Your reference on 01.02.2023

TEST REPORT

Description of the sample: **Olive oil**

Condition of the received sample: Excellent

Origin: Greece

Sampling by: Chondros George

Date of sample receipt: 02.02.2023

Benaki protocol No: ΥΠ63/09.02.2023

METHODS OF ANALYSIS

M18-LC-ESI-[+]: Accredited M18 [Liquid chromatography coupled to triple quadrupole mass spectrometer (LC/MS/MS)]

Date of extraction: 02.02.2023

Dates of analysis: 03.02.2023

Test results: The received sample was analysed by the above-mentioned method suitable for the determination of residues of plant protection products of its scope and no residues were detected at concentrations higher than the reporting limits, as shown in the attached table No 2.

M18-GC-MS/MS: Accredited M18 [Gas chromatography coupled to triple quadrupole mass spectrometer (GC/MS/MS)]

Date of extraction: 02.02.2023

Dates of analysis: 06.02.2023

Test results: The received sample was analysed by the above-mentioned method suitable for the determination of residues of plant protection products of its scope and no residues were detected at concentrations higher than the reporting limits, as shown in the attached table No 2.

The General Director

Dr K. Machera



Testing
No. of Certificate 97

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Table 1: Reporting limits [M18-Plant origin-LC-ESI (+)]

| Αναλύτης | Όριο αναφοράς mg/kg | Αναλύτης | Όριο αναφοράς mg/kg | Αναλύτης | Όριο αναφοράς mg/kg |
|--------------------------|---------------------|------------------------------|---------------------|---|---------------------|
| acephate | 0,05 | dodemorph | 0,01 | metamitron | 0,01 |
| acetamiprid | 0,01 | EPN | 0,01 | metconazole | 0,01 |
| acetochlor | 0,01 | epoxiconazole | 0,01 | methabenzthiazuron | 0,05 |
| aldicarb (ολικό) | 0,1 | ethion | 0,01 | methacrifos | 0,01 |
| • aldicarb | 0,1 | ethirimol | 0,01 | methamidophos | 0,01 |
| • aldicarb sulfone | 0,01 | ethofumesate | 0,01 | methiocarb (ολικό) | 0,01 |
| • aldicarb sulfoxide | 0,01 | ethoprophos | 0,01 | • methiocarb | 0,01 |
| ametryn | 0,01 | ethoxyquin | 0,02 | • methiocarb-sulfone | 0,01 |
| atrazine | 0,01 | etofenprox | 0,01 | • methiocarb-sulfoxide | 0,01 |
| azinphos ethyl | 0,05 | etoxazole | 0,01 | methomyl (ολικό) | 0,01 |
| azinphos methyl | 0,01 | famoxadone | 0,01 | • methomyl | 0,01 |
| azoxystrobin | 0,01 | fenamidone | 0,01 | • thiodicarb | 0,01 |
| benalaxyl | 0,05 | fenamiphos (ολικό) | 0,01 | methoxyfenozide | 0,01 |
| benfuracarb | 0,01 | • fenamiphos | 0,01 | metobromuron | 0,01 |
| benomyl | ως carbendazim | • fenamiphos sulfone | 0,01 | metoxuron | 0,01 |
| bensulfuron-methyl | 0,01 | • fenamiphos sulfoxide | 0,01 | metsulfuron methyl | 0,01 |
| benzoximate | 0,01 | fenazaquin | 0,01 | mevinphos (ολικό) | 0,05 |
| bitertanol | 0,1 | fenbuconazole | 0,01 | • mevinphos E (cis) | 0,05 |
| boscalid | 0,1 | fenhexamid | 0,01 | • mevinphos Z (trans) | 0,05 |
| bromacil | 0,05 | fenoxycarb | 0,01 | monocrotophos | 0,01 |
| bromuconazole | 0,01 | fenpropimorph | 0,05 | monolinuron | 0,01 |
| bupirimate | 0,01 | fenpyroximate | 0,01 | myclobutanil | 0,01 |
| buprofezin | 0,01 | fensulfothion (ολικό) | 0,01 | naled | 0,01 |
| cadusafos | 0,01 | • fensulfothion | 0,01 | napropamide | 0,01 |
| carbaryl | 0,01 | • fensulfothion oxon | 0,01 | nicosulfuron | 0,01 |
| carbendazim (& benomyl) | 0,01 | • fensulfothion sulfone | 0,01 | nitenpyram | 0,05 |
| carbofuran (ολικό) | 0,01 | • fensulfothion oxon-sulfone | 0,01 | nuarimol | 0,05 |
| • carbofuran | 0,01 | fenthion (ολικό) | 0,01 | omethoate | βλέπε dimethoate |
| • carbofuran, 3-hydroxy- | 0,01 | • fenthion | 0,01 | oxadiazon | 0,01 |
| carbosulfan | 0,01 | • fenthion oxon | 0,01 | oxadixyl | 0,01 |
| carboxin | 0,01 | • fenthion-sulfone | 0,01 | oxamyl | 0,01 |
| chlorbromuron | 0,01 | • fenthion-sulfoxide | 0,01 | oxydemeton methyl (ολικό) (demeton-S-methyl sulfoxide) | 0,01 |
| chlorfenvinphos | 0,01 | • fenthion oxon-sulfone | 0,01 | • oxydemeton methyl (demeton-S-methyl sulfoxide) | 0,01 |
| chloridazon | 0,05 | • fenthion oxon-sulfoxide | 0,01 | • demeton-S-methyl sulfone | 0,01 |
| chlorotoluron | 0,01 | flufenacet | 0,01 | paclobutrazole | 0,02 |
| chloroxuron | 0,01 | flufenoxuron | 0,01 | paraoxon-methyl | 0,01 |
| chlorpyrifos | 0,01 | fluometuron | 0,01 | parathion | 0,01 |
| chlorsulfuron | 0,01 | fluopicolide | 0,02 | penconazole | 0,01 |
| clofentezine | 0,01 | fluquinconazole | 0,01 | pencycuron | 0,01 |
| clothianidin | 0,01 | flutolanil | 0,01 | pendimethalin | 0,01 |
| coumaphos | 0,01 | flusilazole | 0,01 | phenanthrin | 0,01 |
| cymoxanil | 0,01 | flutriafol | 0,01 | phosalone | 0,01 |
| cyproconazole | 0,01 | hexaconazole | 0,01 | phosmet (ολικό) | 0,01 |
| cyprodinil | 0,01 | hexythiazox | 0,01 | • phosmet | 0,01 |
| demeton-S-methyl | 0,01 | imazalil | 0,01 | • phosmet oxon | 0,01 |
| desmetryn | 0,01 | imazamethabenz-methyl | 0,01 | phoxim | 0,01 |
| diazinon | 0,01 | imidacloprid | 0,01 | picoxystrobin | 0,05 |
| dichlofluanid | 0,01 | indoxacarb (ολικό) | 0,01 | piperonyl butoxide | 0,01 |
| dichlorvos | 0,01 | fosthiazate | 0,01 | pirimicarb (ολικό) | 0,01 |
| dicrotophos | 0,01 | furathiocarb | 0,01 | • pirimicarb | 0,01 |
| diethofencarb | 0,01 | heptenophos | 0,05 | • desmethyl pirimicarb | 0,01 |
| dimethoate (ολικό) | 0,01 | iprovalicarb | 0,05 | pirimiphos-methyl | 0,01 |
| • dimethoate | 0,01 | isoprothiolane | 0,05 | primisulfuron | 0,01 |
| • omethoate | 0,01 | isoproturon | 0,01 | prochloraz | 0,01 |
| difenoconazole | 0,01 | linuron | 0,01 | profenofos | 0,01 |
| diflufenican | 0,01 | lufenuron | 0,05 | prometryn | 0,01 |
| dimethomorph | 0,01 | malathion (ολικό) | 0,01 | propamocarb | 0,01 |
| diniconazole | 0,01 | • malathion | 0,01 | propargite | 0,01 |
| diphenamid | 0,1 | • malaoxon | 0,01 | propiconazole | 0,01 |
| disulfoton (ολικό) | 0,05 | mecarbam | 0,05 | pymetrozine | 0,1 |
| • disulfoton | 0,05 | mepanipyrim | 0,01 | pyraclostrobin | 0,01 |
| • disulfoton sulfone | 0,01 | metaflumizone | 0,05 | pyrazophos | 0,01 |
| • disulfoton sulfoxide | 0,01 | metalaxyl (ολικό) | 0,01 | | |



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| Αναλύτης | Όριο αναφοράς mg/kg | Αναλύτης | Όριο αναφοράς mg/kg | Αναλύτης | Όριο αναφοράς mg/kg |
|--------------------|------------------------|----------------------|------------------------|-----------------------|------------------------|
| pyrethrins (ολικό) | 0,01 | spirodiclofen | 0,01 | thifensulfuron-methyl | 0,01 |
| • cinerin I | 0,01 | spiroxamine | 0,01 | thiodicarb | as methomyl |
| • cinerin II | 0,01 | tebuconazole | 0,01 | thiophanate-methyl | 0,01 |
| • jasmolin I | 0,01 | tebufenozide | 0,01 | tolyfluanid | 0,01 |
| • jasmolin II | 0,01 | tebufenpyrad | 0,01 | tralkoxydim | 0,05 |
| • pyrethrin I | 0,01 | temephos | 0,01 | triadimefon (ολικό) | 0,01 |
| • pyrethrin II | 0,01 | terbufos | 0,01 | • triadimefon | 0,01 |
| pyridaben | 0,01 | terbufos sulfone | 0,01 | • triadimenol | 0,01 |
| pyridate | 0,01 | terbufos sulfoxide | 0,01 | triadimenol | as triadimefon |
| pyrifenox | 0,01 | terbuthylazine | 0,01 | thiobencarb | 0,01 |
| pyrimethanil | 0,01 | terbutryn | 0,05 | triasulfuron | 0,01 |
| pyriproxyfen | 0,01 | tetrachlorvinphos | 0,05 | triazophos | 0,01 |
| quinalphos | 0,01 | tetraconazole | 0,01 | tricyclazole | 0,01 |
| quinoxifen | 0,01 | thiabendazole | 0,01 | trifloxystrobin | 0,01 |
| sethoxydime | 0,05 | thiacloprid | 0,01 | triticonazole | 0,01 |
| spinosad (ολικό) | 0,01 | thiamethoxam (ολικό) | 0,01 | vamidothion | 0,01 |
| • spinosyn A | 0,01 | • thiamethoxam | 0,01 | zoxamide | 0,01 |
| • spinosyn D | 0,01 | • clothianidin | 0,01 | | |



Table 2-M15: Reporting level [M18, GC/MS/MS]

| Αναλύτης/compound | Όριο αναφοράς/ Reporting level mg/kg | Αναλύτης/compound | Όριο αναφοράς/ Reporting level mg/kg | Αναλύτης/compound | Όριο αναφοράς/ Reporting level mg/kg |
|-----------------------------|--|--|--|-------------------------------------|--|
| acclonifen | 0.01 | dieldrin (ολικό/sum) | 0.01 | nitrofen | 0.01 |
| acrinathrin | 0.01 | • aldrin | 0.01 | orthophenyl-phenol (2-phenylphenol) | 0.01 |
| aldrin | ως/as dieldrin | • dieldrin | 0,01 | oxyfluorfen | 0.01 |
| azinhphos ethyl | 0.01 | dinitramine | 0.01 | parathion-methyl | 0.02 |
| benfluralin | 0.01 | diphenylamine | 0.01 | pentachloroaniline | 0.01 |
| bifenthrin | 0.02 | endosulfan (ολικό/sum) | 0.005 | permethrin (ολικό/sum) | 0.02 |
| biphenyl | 0.01 | • endosulfan. alpha- | 0.005 | phenthoate | 0.02 |
| bromophos-ethyl | 0.01 | • endosulfan. beta- | 0.005 | phorate | 0.01 |
| bromopropylate | 0.01 | • endosulfan-sulfate | 0.005 | procymidone | 0.02 |
| chlordan (ολικό/sum) | 0.01 | endrin | 0.01 | propanil | 0.1 |
| • chlordan. alpha- (cis-) | 0.01 | ethalfuralin | 0.01 | propham | 0.01 |
| • chlordan. gamma- (trans-) | 0.01 | fenarimol | 0.01 | propyzamide | 0.01 |
| chlorfenapyr | 0.01 | fenitrothion | 0.01 | prothiofos | 0.01 |
| chlorobenzilate | 0.01 | fenpropathrin | 0.01 | Pyridaben | 0.01 |
| chlorpyrifos-methyl | 0.01 | fenvalerate & esfenvalerate (sum of RR&SS isomers) | 0.01 | quintozene | 0.01 |
| chlorthal dimethyl | 0.01 | fipronil | 0.01 | simazine | 0.01 |
| Cyanazine | 0.05 | flucythrinate | 0.01 | spiromesifen | 0.01 |
| cyfluthrin (ολικό/sum) | 0.01 | HCH (ολικό/sum) | | tau-fluvalinate | 0.01 |
| cypermethrin (ολικό/sum) | 0.01 | • HCH. alpha- | 0.005 | tecnazene | 0.01 |
| DDD. o. p'- | 0.01 | • HCH. beta- | 0.005 | tefluthrin | 0.01 |
| DDE. o. p'- | 0.01 | heptachlor (ολικό/sum) | 0.005 | tetradifon | 0.02 |
| DDT (ολικό/sum) | 0.01 | • heptachlor | 0.01 | tolclofos-methyl | 0.01 |
| • DDT. p. p'- | 0.01 | • heptachlor-epoxide | 0.01 | trifluralin | 0.01 |
| • DDT. o. p'- | 0.01 | hexachlorobenzene (HCB) | 0.01 | vinclozolin | 0.01 |
| • DDE. p. p'- | 0.01 | isocarbofos | 0.01 | | |
| • DDD (TDE). p. p'- | 0.01 | isofenphos-methyl | 0.01 | | |
| deltamethrin (cis-) | 0.01 | kresoxim-methyl | 0.01 | | |
| Dichorobenzophenone 2.4 | 0.01 | lambda-cyhalothrin | 0.01 | | |
| Dichorobenzophenone 4.4 | 0.01 | lindane (HCH. gamma-) | 0.01 | | |
| Dicloran | 0.01 | metazachlor | 0.01 | | |
| dicofol (ολικό/sum) | 0.02 | methidathion | 0.01 | | |
| • dicofol. p. p'- | 0.01 | Methoxychlor | 0.01 | | |
| • dicofol. o. p'- | 0.01 | Metolachlor | 0.01 | | |

* Confirmation of positive result with LC/MS/MS/ESI (-)

