

### CERTIFICATE OF ANALYSIS: 18650

Personal Data		Sample Data	
Company:	MELISSA KIKIZAS S.A.	Sample:	Extra Virgin Olive Oil
Branch:	TERRA CRETA	Sample Code:	18650
First Name last Name:	Fotis Sousalis	Date of Receipt:	15/01/2024
Address:	Kolymvari, Chania PC 73006	Date of Analysis:	15/01/2024 – 19/01/2024
Tel:	+30 2821 110500	Condition of Sample:	Acceptable
email:	f.sousalis@terracreta.gr	Sampling Responsible:	Client
		Description:	Sealed bottle TC 20122023

Determination	Units	Result	Limit <sup>1</sup>	Method of Analysis
<b>Acidity</b>	% w/w oleic acid	<b>0.23</b>	M 0.8	COI/T.20/Doc. No 34
<b>Absorbance in UV</b>				
K <sub>270</sub>	-	<b>0.142</b>	M 0.22	COI/T.20/Doc. No 19
K <sub>232</sub>	-	<b>1.654</b>	M 2.50	COI/T.20/Doc. No 19
ΔK	-	<b>-0.007</b>	M 0.01	COI/T.20/Doc. No 19
<b>Peroxide Value</b>	meq O <sub>2</sub> /kg	<b>4.9</b>	M 20	COI/T.20/Doc. No 35
<b>tocopherols</b>	mg/kg	<b>347.6</b>	-	ISO: 9936 HPLC-DAD *
α-tocopherol	mg/kg	<b>337.8</b>	-	ISO: 9936 HPLC-DAD *
β-tocopherol	mg/kg	<b>3.4</b>	-	ISO: 9936 HPLC-DAD *
γ-tocopherol	mg/kg	<b>6.4</b>	-	ISO: 9936 HPLC-DAD *
δ-tocopherol	mg/kg	<b>&lt; 1.0</b>	-	ISO: 9936 HPLC-DAD *
<b>Total phenolic compounds</b>	mg/Kg	<b>310.6</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Hydroxytyrosol	mg/Kg	<b>1.1</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Tyrosol	mg/Kg	<b>2.4</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Vanillic acid	mg/Kg	<b>0.6</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Vanillin	mg/Kg	<b>0.1</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
p-Coumaric acid	mg/Kg	<b>0.1</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Hydroxytyrosol acetate	mg/Kg	<b>7.3</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Ferulic acid	mg/Kg	<b>0.15</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
DDOA <sup>a</sup>	mg/Kg	<b>12.4</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Isomer of AOA <sup>c</sup>	mg/Kg	<b>43.7</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
DDLA <sup>b</sup>	mg/Kg	<b>42.1</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Pinoresinol	mg/Kg	<b>0.9</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Cinnamic acid + 1-Acetoxypinoresinol	mg/Kg	<b>57.9</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Luteolin	mg/Kg	<b>1.77</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
AOA <sup>c</sup>	mg/Kg	<b>100.3</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Apigenin	mg/Kg	<b>0.19</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
AOL <sup>d</sup>	mg/Kg	<b>39.6</b>	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
<b>Hydroxytyrosol, tyrosol and their derivatives<sup>e</sup></b>	mg/20 gr	<b>5.0</b>	M <sup>2</sup> 5.0	Efet: 1654/06.02.2018

<sup>1</sup>Analytical data within limits of E.U. regulations 2022/2104 & 2022/2105 for Extra Virgin Olive Oil as amended and valid. (M: Maximum, m: minimum). <sup>2</sup>EU Regulation 432/2012

<sup>a</sup>:dialdehydic form decarboxymethyl oleuropein aglycon, <sup>b</sup>dialdehydic form decarboxymethyl ligstroside aglycon, <sup>c</sup>: aldehydic form oleuropein aglycon <sup>d</sup>: aldehydic form ligstroside aglycon. <sup>e</sup> Sum of Hydroxytyrosol, Tyrosol, Hydroxytyrosol acetate, DDOA, Isomer of AOA, DDLA, AOA, AOL.

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First Name last Name:	Fotis Sousalis	Date of Receipt:	15/01/2024
Address:	Kolymvari, Chania PC 73006	Date of Analysis:	15/01/2024 – 19/01/2024
Tel:	+30 2821 110500	Condition of Sample:	Acceptable
email:	f.sousalis@terracreta.gr	Sampling Responsible:	Client
		Description:	Sealed bottle TC 20122023

Determination	Result	Report limit
<b>Pesticides Residues*</b> (Table of concentrations of pesticides residues above R.L.)		
Acetamiprid	0.010 mg/Kg	0.01 mg/Kg

Method of analysis: In House GC MS/MS & LC MS/MS (J. of Chromatography A, 912 (2001) 135–142 & AOAC 2007.1)

R.L.: Report Limit

#### (List of pesticides residues analyzed by GC-MS/MS)

Methamidophos, Pentachlorobenzonitrile, Chlorpyrifos ethyl, Dichlorvos, Profluralin, 4,4'-Dichlorobenzophenone, Allidochlor, Pyrimethanil, Triadimefon, Dichlobenil, Terbutylazine Fenson, Biphenyl Diazinon, MGK 264, 3,4-dichloroaniline, Phosphamidon, Bromophos methyl, Propham, Fluchloralin Diphenamid, Etridiazole, Delta-HCH, Isodrin, Pebulate, Terbacil, Cyprodinil, cis-1,2,3,6-tetrahydrophthalimide Chlorothalonil, Pirimiphos ethyl, Methacrifos, Tefluthrin, Isopropalin, Chloroneb, Triallate, Heptachlor epoxide, Pentachlorobenzene, Isazofos, Metazachlor, omethoate, Endosulfan ether, Pendimethalin Tecnazene, Pentachloraniline, Penconazol, Propachlor, Propanil, Tolyfluanid, diphenylamine, Dimethachlor Captan, 2,3,5,6-tetrachloroaniline, Acetochlor, Bromfenvinphos methyl, Ethoprophos, Chlorpyrifos methyl Chlorfenvinphos, Cycloate, Vinclozolin, Quinalphos, Ethafluralin, Malaoxon, Folpet, Dicrotophos, Tolclofos methyl, Bioallethrin, Trifluralin, Heptachlor, Fipronil, Benfluralin, Transfluthrin, Chlorbensid, Sulfotep, Alachlor Procymidone, Diallylate, Propisochlor, Triadimenol, Alpha-HCH, paraoxon ethyl, trans-Chlordane Dimethoate, Fenchlorphos, Triflumizole, Hexachlorobenzene, Fenitrothion, 2,4'-DDE, Dichloran, Methidathion, Bromophos ethyl, Pentachloroanisole, Linuron, Paclobutrazol, Atrazine, Pirimiphos methyl Endosulfan-alpha, Clomazon, Prodiamine, cis-Chlordane, Beta-HCH, dichlorofluanid, Cis, Tetrachlorvinphos Lindane, Anthraquinone, Trans Nonachlor, Terbutylazine, Aldrin, Flutriafol, Quintozene, Malathion Chlorfenson, Terbufos, Metolachlor-S, Fenamiphos, Propyzamide, Fenthion, Iodofenphos, Bromfenvinphos ethyl, Sulprophos, Pyriproxyfen, Tricyclazole, Carbophenothion, Fenarimol, Flutolanil, Edifenphos, Lambda-Cyhalothrin, Prothiofos, Endosulfan total (sulfate), Azinphos ethyl, Profenofos, 4,4'-Methoxychlor olefin, Pyrazophos, Dieldrin, Lenacil, Pyraclofos, Fudioxonil, norflurazon, Acrinathrin, 4,4'-DDE, 4,4'-DDT, Trans Permethrine, Pretilachlor, Trifloxystrobin, Pyridaben, 2,4'-DDD, Hexazinone, Cis Permethrine, Oxadiazon Tebuconazole, Fluquinconazole, Myclobutanil, o,p'- Methoxychlor olefin, Coumaphos Diclobutrazol, Captafol, Prochloraz, Azaconazole, Propargite, Cyfluthrin beta, Prothioconazole desthio Epoxiconazole, Cypermethrin, Flusilazole, Resmethrin, Cypermethrin-alpha, Oxyfluorfen, Endrin ketone, Flucythrinate, Bupirimate, Nitralin, Etofenprox, Endrin, Iprodione, Fluridone, Kresoxim Methyl, Phosmet Fenvalerate, Nitrofen, Pyridaphenthion, Pyraclostrobin, Cyproconazol, Tetramethrin, tau-Fluvalinate Perthan, EPN, Difenconazole, Endosulfan beta, Methoxychlor, Deltamethrin, fenthion sulfoxide, Bifenthrin Phorate, Diniconazole, Prothioconazole, Parathion methyl, Chlorthiophos, Tebufenpyrad, Parathion ethyl 4,4'-DDD (TDE), Tetradifon, Metalaxyl, Cis Nonachlor, Phenothrin, Fluzifop-P-butyl, fenthion sulfone Azinphos methyl, Triazophos, 2,4'-DDT, Phosalone, Piperonyl-Butoxide, Endrin aldehyde, Leptophos Methyl-pentachlorophenyl sulphide, Ethion, Mirex, Chlorfenapyr, Fenpropathrin

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Branch: TERRA CRETA  
First Name last Name: Fotis Sousalis  
Address: Kolympvari, Chania PC 73006  
Tel: +30 2821 110500  
email: [f.sousalis@terracreta.gr](mailto:f.sousalis@terracreta.gr)

#### Sample Data

Sample: Extra Virgin Olive Oil  
Sample Code: 18650  
Date of Receipt: 15/01/2024  
Date of Analysis: 15/01/2024 – 19/01/2024  
Condition of Sample: Acceptable  
Sampling Responsible: Client  
Description: Sealed bottle TC 20122023

#### (List of pesticides residues analyzed by LC-MS/MS)

2,3,5-Trimethacarb/3,4,5-Trimethacarb, Acephate , Acetamiprid, Acibenzolar-S-methyl , Alaclor, Aldicarb Aldicarb sulfone , Allethrin , Ametocradin, Ametryn, Amidosulfuron , Aminocarb , Amitraz , Asulam ,Atrazine, Atrazine desethyl , Avermectin B1A , Azaconazole, Azadirachtin , Azamethiphos, Azimsulfuron Azinphos ethyl, Azinphos methyl, Azoxystrobin, Beflubutamid, Benalaxyl , Benfuracarb , Benomyl ,Bensulfuron methyl, Benthialvalicarb-isopropyl , Benzoximate , Bifenazate , Bifenthrin , Bispyribac-sodium Bitertanol, Bixafen , Boscalid , Bromacil, Bromuconazole, Bupirimate, Buprofezin , Butafenacil , Butocarboxim sulfone , Butocarboxim sulfoxide , Butralin , Buturon , Butylate , Cadusafos , Captafol , Carbaryl Carbendazim, Carbetamide , Carbofuran, Carbofuran-3-hydroxy, Carbofuran-3-keto , Carboxin Carfentrazone ethyl , Carpropamid, Chlorantraniliprole, Chlorbromuron , Chlorfenvinphos , Chlorfluazuron Chloridazon, Chlormephos , Chloroxuron, Chlorpropham, Chlorpyrifos ethyl, Chlorsulfuron , Chlorthiamid ,Chlortoluron, Chromafenozide , Cinerin I , Cinerin II , Cinidon ethyl , Climbazole , Clodinafop-propargyl Clofentezine , Clomazone, Cloransulam methyl , Clothianidin, Coumaphos, Crimidine, Cyanazine Cyanofenphos, Cyazofamid , Cycloate, Cycloxydim , Cymiazole , Cymoxanil , Cyproconazole , Cyprodinil Cyromazine , DEET , Deltamethrin, Demeton-S-methyl, Demeton-S-methyl sulfone , Desmedipham, Desmetyrn, Diafenthuron , Diazinon, Dichlorfenthion, Diclobutrazole, Diclofop methyl , Diclosulam Dicrotophos, Diethofencarb, Difenacoum , Difenoconazol, Diflufenican , Dimethylaminosulfanilid (DMSA) ,Dimethachlor , Dimethenamid , Dimethoate, Dimethomorph, Dimoxystrobin, Diniconazol , Dinobuton Diphenamid , Diphenylamine, Dipropetryn , Disulfoton sulfone , Disulfoton sulfoxide , Diuron, DMA , DMF DMPF , DMST, Dodemorph , Dodine, Emamectin benzoate , Epoxiconazole, EPTC , Etaconazole, Ethiofencarb sulfone , Ethiofencarb sulfoxide , Ethiofencarb , Ethion , Ethiprole, Ethirimol , Ethofumesate, Ethoprophos, Ethoxyquin , Ethoxysulfuron , Etofenprox , Etoxazole , Etrifos, Famoxadone , Famphur Fenamidone , Fenamiphos, Fenamiphos sulfone, Fenamiphos sulfoxide, Fenarimol, Fenazoxin Fenbuconazole, Fenchlorazol ethyl , Fenchlorophos oxon , Fenhexamid , Fenitrothion, Fenobucarb Fenoxaprop , Fenoxaprop-P-ethyl , Fenoxycarb, Fenpiclonil , Fenpropimorph , Fenpyroximate Fensulfthion Fenthion oxon, Fenthion oxon sulfone, Fenthion oxon sulfoxide, Fenthion sulfone , Fenthion sulfoxide Fenthion , Flazasulfuron , Fluazifop butyl , Flufenacet, Flufenoxuron , Flumetralin , Flumioxazine , Fluometuron, Fluopicolide, Fluopyram , Fluoroglycofen ethyl, Flupyradifurone, Fluoxastrobin, Fluquinconazole, Flurochloridone , Fluroxypyr meptyl , Flurprimidol , Flurtamone , Flusilazole, Fluthiacet methyl , Flutolanil, Flutriafol, Fluxapyroxad Fomesafen , Fonofos (Dyfonate) , Foramsulfuron , Formetanate , Formothion , Fosthiazate, Fuberidazole Furalaxyl, Furathiocarb , Halfenprox , Halosulfuron methyl , Haloxyfop methyl , Haloxyfop , Haloxyfop-2-ethoxyethyl , Heptenophos , Hexaconazole, Hexazinone, Hexythiazox, Imazalil , Imazamethabenz methyl, Imazamox , Imazapic , Imazaquin , Imazosulfuron , Imidacloprid, Indoxacarb, Iodosulfuron methyl sodium Ipconazole , Iprobenphos, Iprovalicarb, Isazofos, Isocarbophos , Isofenphos methyl, Isofenphos , Isoprocarb Isoprothiolane, Isoproturon, Isopyrazam , Isoxaben , Isoxadifen ethyl , Isoxaflutole , Isoxathion, Jasmolin I Jasmolin II , Kresoxim methyl, Lenacil, Linuron , Malaaxon, Malathion, Mandipropamid, Mecarbam Mefenacet , Mefenpyr diethyl , Mepanipyrim, Mephospholan, Mepronil, Mesosulfuron methyl , Mesotrione Metalaxyl M, Metamitron, Metazachlor, Metconazole, Methabenzthiazuron , Methacrifos , Methamidophos , Methidathion, Methiocarb sulfone, Methiocarb sulfoxide, Methiocarb , Methomyl , Methoprene Methoprotryne, Methoxyfenozide, Metobromuron , Metolachlor, Metolcarb , Metosulam , Metoxuron Metrafenone , Metribuzin , Metsulfuron methyl , Milbemycin A3 , Milbemycin A4 , Molinate , Monocrotophos , Monolinuron , Monuron , Myclobutanil, Naled , Napropamide , Neburon , Nicosulfuron , Nitenpyram Nitrothal isopropyl, Norflurazon, N-Phenylurea

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email:	f.sousalis@terracreta.gr	Sampling Responsible:	Client
		Description:	Sealed bottle TC 20122023

#### (List of pesticides residues analyzed by LC-MS/MS continuing)

Nuarimol , Ofurace , Omethoate, Orthosulfamuron , Oxadiargyl , Oxadiazon, Oxadixyl , Oxamyl, Oxamyl-oxime , Oxasulfuron , Oxycarboxin, Oxydemeton methyl , Oxyfluorfen , Paclobutrazol, Paraoxon ethyl Paraoxon methyl , Pebulate , Penconazole , Pencycuron , Pendimethalin, Penoxsulam , Pethoxamid, Phenmedipham , Phenthoate, Phorate sulfoxide , Phosalone , Phosdrin (Mevinphos) , Phosmet, Phosmet oxon , Phosphamidon, Phoxim , Picolinafen, Picoxystrobin, Pinoxaden , Piperonyl butoxide , Pirimicarb Pirimicarb-desmethyl , Pirimiphos ethyl, Pirimiphos methyl, Pirimiphos-Methyl-N-Desmethyl , Prallethrin Prochloraz, Profenofos, Promecarb , Prometryn, Propachlor, Propamocarb , Propaquizafop, Propargite, Propazine, Propetamphos , Propham , Propiconazole, Propoxur , Propoxycarbazono , Propyzamide, Proquinazid , Prosulfocarb, Prosulfuron , Prothioconazole-desthio , Pymetrozine , Pyraclostrobin, Pyraflufen ethyl, Pyrasulfotole , Pyrazophos, Pyrethrin I , Pyrethrin II , Pyridaben, Pyridalyl , Pyridaphenthion, Pyridate Pyrifenox , Pyrimethanil , Pyrimidifen, Pyriproxyfen, Pyroxsulam , Quinalphos, Quinclorac , Quinmerac, Quinoxifen, Quizalofop ethyl, Quizalofop-p-tefuryl , Resmethrin , Rimsulfuron , Rotenone, Saflufenacil Sethoxydim , Siduron , Silthiofam , Simazine , Simeconazole, Spinetoram J+L , Spinosad, Spinosyn A&D , Spirodiclofen Spiromesifen, Spirotetramat, Spirotetramat Metabolite cis-enol , Spirotetramat Metabolite enol glucoside, Spirotetramat Metabolite keto hydroxy , Spirotetramat Metabolite mono hydroxy , Spiroxamine , Sulcotrione , Sulfosulfuron , Sulfotep, Sulfoxaflor , Sulprofos , Tebuconazole, Tebufenozide, Tebufenpyrad, Tebuthiuron Temephos , Tepraloxydim , Terbufos sulfone, Terbufos sulfoxide, Terbufos , Terbumeton, Terbutylazine Terbutryn, Tetrachlorvinphos , Tetraconazole, Tetraethylpyrophosphate , Tetramethrin , Thiabendazole Thiachloprid , Thiamethoxam , Thidiazuron , Thifensulfuron methyl , Thiobencarb , Thiodicarb , Thiofanox sulfone , Thiofanox sulfoxide , Thiofanox , Thiometon sulfone , Thiometon sulfoxide , Thiometon , Thiophanate methyl , Tiocarbazil , Tolyfluanid, Topramezone , Tralkoxydim, Triadimefon, Triadimenol , Triasulfuron Triazophos, Tribenuron methyl , Trichlorfon , Tricyclazole , Tridemorph , Trifloxystrobin, Triflumizole, Triflurosulfuron methyl , Trinexapac ethyl , Triticonazole, Tritosulfuron , Uniconazole, Valifenalate , Vamidothion sulfone Vamidothion sulfoxide , Vamidothion , Warfarin , Zoxamide

DATE OF ISSUE: 19/01/2024

On behalf of the laboratory



Michalis Tampakopoulos  
Chemist, M.Sc.

#### End of the Report

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