

CERTIFICATE OF ANALYSIS: 21830

Personal Data		Sample Data	
Company:	Marakas Olive Oil	Sample:	Extra Virgin Olive Oil
First Name last Name:	Michalis Marakas	Sample Code:	21830
Address:	Xamoudochori, Chania, 73014	Date of Receipt:	17/01/2025
Tel:	+30 6932388294	Date of Analysis:	17/01/2025 – 21/01/2025
email:	michaelmarakas@gmail.com	Condition of Sample:	Acceptable
		Sampling Responsible:	Client
		Description:	Sealed bottle ΒΙΟΛΟΓΙΚΗ ΠΑΡΑΓΩΓΗ 2024-25 ΔΕΞΑΜΕΝΗ 3

Determination	Units	Result	Limit ¹	Method of Analysis
Acidity	% w/w oleic acid	0.27	M 0.8	COI/T.20/Doc. No 34
Absorbance in UV				
K ₂₇₀	-	0.161	M 0.22	COI/T.20/Doc. No 19
K ₂₃₂	-	1.951	M 2.50	COI/T.20/Doc. No 19
Δ _K	-	-0.004	M 0.01	COI/T.20/Doc. No 19
Peroxide Value	meq O ₂ /kg	8.1	M 20	COI/T.20/Doc. No 35

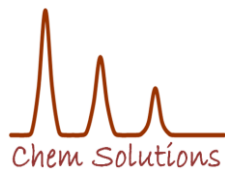
¹ Analytical data within limits of E.U. regulations 2022/2104 & 2022/2105 for Extra Virgin Olive Oil as amended and valid.
(M: Maximum, m: minimum).

Determination	Units	Result	Limit ²	Method of Analysis
Total phenolic compounds	mg/Kg	1100.7	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Hydroxytyrosol	mg/Kg	4.5	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Tyrosol	mg/Kg	7.4	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Vanillic acid	mg/Kg	0.3	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Vanillin	mg/Kg	0.1	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
p-Coumaric acid	mg/Kg	0.1	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Hydroxytyrosol acetate	mg/Kg	9.5	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Ferulic acid	mg/Kg	0.28	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
DDOA ^a	mg/Kg	106.8	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Isomer of AOA ^c	mg/Kg	162.7	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
DDLA ^b	mg/Kg	141.6	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Pinoresinol	mg/Kg	3.3	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Cinnamic acid + 1-Acetoxypinoresinol	mg/Kg	117.7	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Luteolin	mg/Kg	0.91	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
AOA ^c	mg/Kg	444.8	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Apigenin	mg/Kg	0.18	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
AOL ^d	mg/Kg	100.4	-	COI /T.20/Doc. No 29/Rev 2/METHOD 2*
Hydroxytyrosol, tyrosol and their derivatives^e	mg/20 gr	19.6	m ² 5.0	Efet: 1654/06.02.2018

(M: Maximum, m: minimum). ²EU Regulation 432/2012

^a:dialdehydic form decarboxymethyl oleuropein aglycon, ^bdialdehydic form decarboxymethyl ligstroside aglycon, ^c: aldehydic form oleuropein aglycon ^d: aldehydic form ligstroside aglycon. ^e Sum of Hydroxytyrosol, Tyrosol, Hydroxytyrosol acetate, DDOA, Isomer of AOA, DDLA, AOA, AOL.

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CHEMICAL TESTING
LABORATORY RECOGNIZED
BY THE IOC
1.12.2024- 30.11.2025
TYPE B & C



Testing
Cert. No 964

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2024-25 ΔΕΞΑΜΕΝΗ 3

Determination	Units	Result	Report Limit	Method of Analysis
Pesticides				
-	mg/Kg	-	0.01 mg/Kg	16_CS-PESTICIDES LC MS/MS*
-	mg/Kg	-	0.01 mg/Kg	15_CS-PESTICIDES GC MS/MS

Any pesticides not listed above were either not detected, or were detected at a concentration lower than the reporting limit of the method.

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Table of Pesticides assayed by GC MS/MS

2,4'-DDD	Chlorfenvinphos	Disulfoton	Hexanizone
2,4'-DDE	Chlorobenzilate	Edifenphos	Iodofenphos
2,4'-DDT	Chloroneb	Endosulfan-sulfate	Iprodione
2,3,5,6-tetrachloroaniline	Chlorothalonil	Endosulfan-ether	Isazofos
2-phenylphenol	Chlorpropham	Endrin	Isodrin
4,4'-DDD	Chlorpyrifos	Endrin-ketone	Isopropalin
4,4'-DDE	Chlorpyrifos-methyl	EPN	Kresoxim-methyl
4,4'-DDT	Chlorthal	Epoxiconazole	Lambda-Cyhalothrin
4,4r-methoxychlor-olefin	Chlorthiophos	Ethafuralin	Lenacil
Acetochlor	Chlozolinate	Ethion	Leptophos
Acrinathrin	cis-Nonachlor	Ethoprophos	Lindane
Alachlor	cis-1,2,3,6-tetrahydrophthalimide	Etofenprox	Linuron
Aldrin	cis-Chlordane	Etridiazole	Malaoxon
Allidochlor	cis-Permethrin	Fenamiphos	Malathion
Alpha-Endosulfan	Clomazon	Fenarimol	Metalachlor-S
Alpha-HCH	Coumaphos	Fenchlorphos	Metalaxyl
Atrazine	Cycloate	Fenitrothion	Metazachlor
Azaconazole	Cyfluthrin	Fenpropathrin	Methacrifos
Azinphos-ethyl	Cypermethrin	Fenson	Methidathion
Azinphos-methyl	Cyproconazole	Fenthion	Methimidophos
Benfluralin	Cyprodinil	Fenthion-sulfone	Methoxychlor
Beta-BHC	Deltamethrin	Fenthion-sulfoxide	Mevinphos
Beta-Endosulfan	Diallate	Fenvalerate	MGK 264 I
Bifenthrin	Diazinon	Fipronil	Mirex
Biphenyl	Dichloran	Fluazifop-butyl	Myclobutanil
Bromfenviphos-ethyl	Dichlorobenil	Fluchloralin	Nitralin
Bromfenviphos-methyl	Dichlorofluanid	Flucythrinate	Nitrofen
Bromophos-ethyl	Dichlorvos	Fludioxonil	Norflurazon
Bromophos-methyl	Diclobutrazol	Fluquinconazole	Omethoate
Bromopropylate	Dicrotophos	Fluridone	o-p-methoxychlor-olefin
Bupirimate	Dieldrin	Flusilazole	Oxadiazon
Captafol	Difenoconazole	Flutolanil	Oxyfluorfen
Captan	Dimethachlor	Flutriafol	p,p'-dichlorobenzophenone
Carbophenothion	Dimethoate	Folpet	Paclobutrazol
Chlorbensid	Diniconazole	Fonofos	Parathion-ethyl
Chlorfenapyr	Diphenamid	Heptachlor	Parathion-methyl
Chlorfenson	Diphenylamine	Heptachlor-epoxide	Pebulate

The Report Limit for each compound is 0.010 mg/Kg

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Table of Pesticides assayed by GC MS/MS (continuing)

Penconazole	Prodiamine	Pyriproxifen	Tolclofos-methyl
Pendamethalin	Profenofos	Quinalphos	Tolyfluanid
Pentachloroanisole	Profluralin	Quintozone	trans-Nonachlor
Pentachlorobenzene	Propachlor	Resmethrin	trans-Chlordane
Pentachlorobenzonitrile	Propanil	Sulfotep	Transfluthrin
Perthan	Propargite	Sulprophos	trans-Permethrine
Phenothrin	Propham	Tau-Fluvalinate	Triadimefon
Phorate	Propisochlor	Tebuconazole	Triadimenol
Phosalone	Propyzamide	Tebufenpyrad	Triallate
Phosmet	Prothioconazole desthio	Tecnazene	Tricyclazole
Phosphamidon	Prothiofos	Tefluthrin	Trifloxystrobin
Piperonylbutoxide	Pyraclofos	Terbacil	Triflumizole
Pirimiphos-ethyl	Pyraclostrobin	Terbufos	Trifluralin
Pirimiphos-methyl	Pyrazophos	Terbutylazine	Vinclozolin
Pretilachlor	Pyridaben	Tetrachlorvinphos	
Prochloraz	Pyridaphenthion	Tetradifon	
Procymidone	Pyrimethanil	Tetramethrin	

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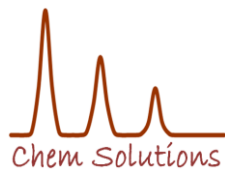
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Table of Pesticides assayed by LC MS/MS*

Acephate	Cymoxanil	Fosthiazate	Picoxystrobin
Acetamiprid	Cyproconazole	Furathiocarb	Pirimicarb
Aldicarb	Cyprodinil	Haloxyfop-methyl	Procloraz
Aldicarb sulfone	Demeton-S-methyl-sulfon	Heptenophos	Prometryn
Aldicarb sulfoxide	Diethofencarb	Hexaconazole	Propamocarb
Ametryn	Dimethomorph	Hexythiazox	Propazine
Asulam	Dimoxystrobin	Imazalil	Propetamphos
Atrazine	Ditalimfos	Imazapyr	Propiconazole
Azinphos-ethyl	Diuron	Imidacloprid	Propoxur
Azinphos-methyl	Dodemorph	Indoxacarb	Pymetrozine
Azoxystrobin	Epoxiconazole	Iprovalicarb	Pyridaphenthion
Benalaxyl	Ethirimol	Isazophos	Pyrifenox
Benfuracarb	Ethofumesate	Isoproturon	Quinoxyfen
Bensulfuron-methyl	Ethoprophos	Linuron	Sethoxydim
Benzoximate	Ethoxyquin	Mecarbam	Simazine
Bitertanol	Etofenprox	Mepanipyrim	Spinosad A
Boscalid	Fenamidon	Mesosulfuron-methyl	Spinosad D
Bromacil	Fenamiphos	Metamitron	spirodiclofen
Bromuconazole	Fenamiphos-sulphone	Metconazole	Spiroxamine
Bupirimate	Fenamiphos-sulphoxide	Methabenzthiazuron	Tebufenozide
Buprofezin	Fenarimol	Methiocarb	Tebufenpyrad
Carbaryl	Fenazaquin	Methiocarb-sulfone	Temephos
Carbendazim	Fenbuconazole	Methiocarb-sulfoxide	Terbutylazine
Carbofuran	Fenhexamid	Methomyl	Terbutryn
Carbofuran-3-hydroxy	Fenoxycarb	Methoxyfenozide	Tetraconazole
Carbosulfan	Fenpiclonil	Metobromuron	Thiabendazole
Carboxin	Fenpropidin	Metoxuron	Thiacloprid
Chlorbromuron	Fenpropimorph	Metribuzin	Thiamethoxam
Chlorfenvinphos	Fenpyroximat	Metsulfuron methyl	Thifensulfuron-methyl
Chloridazon	Fensulfothion	Monocrotophos	Thiodicarb
Chloroxuron	Fluazafop-P-butyl	Monolinuron	Thiophanate-methyl
Chlorsulfuron	Flucyclohexuron	Napropamide	Tralkoxidym
Chlortoluron	Flufenacet	Nicosulfuron	Triasulfuron
Clethodim	Flumethuron	Nitenpyram	Triazophos
Clodinafop-propargyl	Flupyradifurone	Nuarimol	Tricyclazole
Clothianidin	Flusilazole	Oxamyl	Vamidothion
Coumaphos	Flutolanil	Paraoxon-methyl	Zoxamide,
Cyanazine	Flutriafol	Phenthoate	
Cyanofenphos	Fonofos	Phoxim	
Cyantraniliprole	Foramsulfuron	Picolinafen	

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DATE OF ISSUE: 21/01/2025

On behalf of the laboratory



Michalis Tampakopoulos
Chemist, M.Sc.

End of the Report

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