

CERTIFICATE OF ANALYSIS no: P-129416

Date of issue: 10/12/2025

CUSTOMER: SAKELLAROPOULOS ORGANIC FARMS	PHONE : 2731081118
MULTICHROM.LAB CODE No : P-129416	Date of analysis (from): 5/12/2025
COMMODITY ACCORDING TO	(to): 10/12/2025
CUSTOMER: EXTRA VIRGIN OLIVE OIL - ORGANIC	SAMPLE CONDITION: NORMAL
RECEIVING DATE: 5/12/2025	SAMPLING BY: CUSTOMER
SEALS: None	
DATA: ARMONIA Monovarietal Organic	

RESULTS

Determination	Method	Unit	Result	Limit ¹
Free fatty acid content (as oleic acid)	COI/T.20/DOC. 34/Rev. 1 – 2017	%	0,20	≤ 0,80
K Coefficients	COI/T.20/DOC.19/Rev. 5/2019	-	-	-
K268		-	0,143	≤ 0,22
K232		-	1,673	≤ 2,50
DK		-	-0,005	≤ 0,01
Peroxide Value	COI/T.20/DOC.35/Rev. 1/2017	meqO ₂ /kg	3,8	≤20,0
ΔECN42	COI/T.20/Doc.No.20/Rev.4/2017	-	0,01	≤ 0,20
Stigmastadienes	COI/T.20/Doc. No 16/Rev. 2 2017 ^a	mg/kg	0,01	≤ 0,05
Ethylesters of Fatty Acids	COI/T.20/Doc. 28/Rev.4 - 2024	mg/kg	2	≤ 35
Fatty Acid Composition	COI/T.20/DOC. 33/Rev. 1 – 2017	%	-	-
C14:0 (Myristic)			0,02	≤ 0,03
C16:0 (Palmitic)			11,41	7,00-20,00
C16:1 (Palmitoleic)			0,88	0,30-3,50
C17:0 (Heptadecanoic)			0,15	≤ 0,40
C17:1 (Heptadecenoic)			0,27	≤ 0,60
C18:0 (Stearic)			2,58	0,50-5,00
C18:1 (Oleic) (ω9)			77,56	55,00-85,00
C18:2 (Linoleic) (ω6)			5,70	2,50-21,00
C18:3 (Linolenic) (ω3)			0,62	≤ 1,00
C20:0 (Arachidic)			0,39	≤ 0,60
C20:1 (Eicosenoic)			0,27	≤ 0,50
C22:0 (Behenic)			0,11	≤ 0,20
C22:1 (Erucic) (ω9)			<0,01	-
C24:0 (Lignoceric)			0,04	≤ 0,20
trans C18:1			0,01	≤ 0,05
trans C18:2 + trans C18:3			0,01	≤ 0,05
Sterols	COI/T.20/Doc.no.26/Rev.5/2020	mg/kg	1356	≥ 1000

^a Method outside the scope of accreditation.

The above results concern only the sample we examined.

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n.d. - not detected.

¹Limits according to: Reg.EU 2104/2022 as in force today,

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PHONE : 2731081118

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COMMODITY ACCORDING TO

CUSTOMER: EXTRA VIRGIN OLIVE OIL - ORGANIC

(to): 10/12/2025

RECEIVING DATE: 5/12/2025

SAMPLE CONDITION: NORMAL

SEALS: None

SAMPLING BY: CUSTOMER

DATA: ARMONIA Monovarietal Organic

RESULTS

Determination	Method	Unit	Result	Limit ¹
Cholesterol		%	0,2	≤ 0,5
Brasicasterol		%	<0,1	≤ 0,1
24-methylcholesterol		%	0,3	-
Campesterol (Campes.)		%	3,6	≤ 4,0
Campestanol		%	0,1	-
Stigmasterol		%	0,7	< Campes.
d7-campestanol		%	0,0	-
d5,23stigm/dienol		%	0,0	-
Clerosterol		%	1,0	-
B-sitosterol		%	78,3	-
Sitostanol		%	0,3	-
d5-avenasterol		%	14,2	-
d5,24-stigm/dienol		%	0,7	-
d7-stigmastenol		%	0,3	≤ 0,5
d7-avenasterol		%	0,3	-
Erythrodiol		%	2,4	-
Uvaol		%	0,2	-
Erythrodiol+uvaol		%	2,6	≤ 4,5
Total b-sitosterol		%	94,6	≥ 93,0
Waxes (C42+C44+C46)	COI/T.20/Doc. No 28/Rev. 4/ 2024	mg/kg	25	≤ 150


Dimitrios Salivaras
Laboratory Supervisor


Emmanuel Salivaras, M.Sc.
Laboratory General Manager

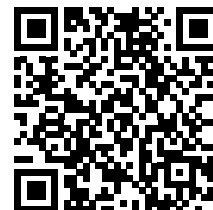
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n.d. - not detected.

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**World Olive Center for Health**

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11634, Pagkrati, Athens
Tel: 2107525134
info@worldolivecenter.com

**Athens: 08/01/2026****Cert. Num: C2526-00562****CERTIFICATE OF ANALYSIS**

Brand Name: ARMONIA Monovarietal Organic
Owner: SAKELLAROPOULOS ORGANIC FARMS
Variety: KORONEIKI
Origin: SPARTA, LACONIA, GREECE
Harvesting Period:
Oil Mill:

Analysis Date: 24/12/2025**Production Date:****Chemical Analysis**

Oleocanthal	333	mg/Kg
Oleacein	124	mg/Kg
Oleocanthal+Oleacein (index D1)	456	mg/Kg
Ligstroside aglycon (monoaldehyde form)	153	mg/Kg
Oleuropein aglycon (monoaldehyde form)	204	mg/Kg
Ligstroside aglycon (dialdehyde form)*	332	mg/Kg
Oleuropein aglycon (dialdehyde form)**	129	mg/Kg
Free Tyrosol	10	mg/Kg
Total tyrosol derivatives	829	mg/Kg
Total hydroxytyrosol derivatives	457	mg/Kg
Total polyphenols analyzed	1,285	mg/Kg

Comments:

The levels of oleocanthal and oleacein are higher than the average values (135 and 105 mg/Kg respectively) of the samples included in the international study performed at the University of California, Davis.

The daily consumption of 20 g of the analyzed olive oil provides 25,71mg of hydroxytyrosol, tyrosol or their derivatives.

Olive oils that contain >5 mg per 20 gr belong to the category of oils that protect the blood lipids from oxidative stress according to the Regulation 432/2012 of the European Union.

It should be noted that oleocanthal and oleacein present important biological activity and they have been related with anti-inflammatory, antioxidant, cardioprotective and neuroprotective activity.

The chemical analysis was performed at the National and Kapodistrian University of Athens according to the method that has been submitted to EFET and published in J. Agric. Food Chem. 2012, 60, 11696, J. Agric. Food Chem. 2014, 62, 600 & Molecules 2020, 25, 2449.

The results relate to the analyzed sample.

*Ligstrodiol+Oleokoronal **Oleomissional+Oleuropeindial

Magiatis Prokopios

PROKOPIOS MAGIATIS
ASSOCIATE PROFESSOR
UNIVERSITY OF ATHENS
FACULTY OF PHARMACY
DEPARTMENT OF PHARMACOGNOSY
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ΕΠΩΝΥΜΙΑ ΠΕΛΑΤΗ / **NAME OF CUSTOMER** : ΒΙΟΛΟΓΙΚΟΙ ΕΛΛΙΩΝΕΣ ΣΑΚΕΛΛΑΡΟΠΟΥΛΟΥ/Sakellaropoulos Organic Farms

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ΤΗΛ / **TEL**:2731081118

EMAIL:geosakel@gmail.com

ΚΙΝΗΤΟ / **MOBILE**:6932309909

ΔΕΙΓΜΑΤΟΛΗΨΙΑ ΑΠΟ / **SAMPLING FROM** : ΠΕΛΑΤΗ / CUSTOMER

ΚΑΤΑΣΤΑΣΗ ΔΕΙΓΜΑΤΟΣ / **STATE OF SAMPLE** : ΚΑΝΟΝΙΚΗ / REGULAR

ΗΜΕΡΟΜΗΝΙΑ ΔΕΙΓΜΑΤΟΛΗΨΙΑΣ /

DATE OF SAMPLING : 2025-12-05

ΗΜΕΡΟΜΗΝΙΑ ΠΑΡΑΛΑΒΗΣ /

DATE OF RECEIPT :2025-12-05

ΗΜΕΡΟΜΗΝΙΑ ΕΝΑΡΞΗΣ ΑΝΑΛΥΣΗΣ /

DATE OF TESTING : 2025-12-05

ΗΜΕΡΟΜΗΝΙΑ ΟΛΟΚΛΗΡΩΣΗΣ ΑΝΑΛΥΣΗΣ /

ANALYSIS DATE : 2025-12-09

ΕΡΓΑΣΤΗΡΙΑ /**LABS** : ΙΟΑΝΝΙΝΑ

ΕΙΔΟΣ ΔΕΙΓΜΑΤΟΣ / **KIND OF SAMPLE** : Εξαιρετικό παρθένο ελαιόλαδο / Extra Virgin Olive Oil

ΚΩΔΙΚΟΣ / **SAMPLE ID**: 462649

ΑΡΙΘΜΟΣ ΠΑΡΤΙΔΑΣ / **BATCH NUMBER**: Αρμονία Βιολογικό/ Armonia Monovarietal Organic

ANALYSES	INSTRUMENT	METHODS	RESULT	(see note)	UNIT
Pesticides Table I	LC MSMS	LCMSMS	< LOQ except of table I	0,01	mg/kg
Pesticides Table II	GCMSMS	GCMSMS	< LOQ except of table II	0,01	mg/kg

Note : LOD= 0,003 mg/Kg , LOQ = 0,01mg/kg

Total Number of Substances Quantified :	0
Approved substances :	OK
The sample according to the substances that were tested and MRL is :	Acceptable

Η Biolab δεν φέρει καμία ευθύνη για τα παραπάνω επιτρεπόμενα όρια που προέρχονται από το συγκεκριμένο ιστοχώρο της Ε.Ε. - The BIOLAB laboratories assumes no responsibility for the above MRL derived from the website E.U.



TABLE I, II, III

ACTIVE SUBSTANCE	RESULT [mg/kg]	MRL**: [mg/kg] (europa.eu)	Percentage of MRL [%]	ARfD* [mg/kg per body weight] (europa.eu)	Percentage of ARfD [%]	ARfD intake [mg/kg]	result expressed as
Sum of Percentages							

*Acceptable Daily Intake (ADI)

*Acute Reference Dose (ARfD)

ADI/ARfD according to <http://www.efsa.europa.eu>

** Methods and MRL according to Regulation (EC) 396/2005, <http://ec.europa.eu/sanco-pesticides> .

ΑΠΑΓΟΡΕΥΕΤΑΙ Η ΤΡΟΠΟΠΟΙΗΣΗ Ή Η ΜΕΡΙΚΗ ΑΝΑΠΑΡΑΓΩΓΗ ΤΗΣ ΕΚΘΕΣΗΣ ΔΟΚΙΜΗΣ ΠΑΡΑ ΜΟΝΟ Η ΠΛΗΡΗΣ ΧΩΡΙΣ ΤΗ ΓΡΑΠΤΗ ΕΓΚΡΙΣΗ ΤΗΣ BIOLAB. ΤΑ ΑΠΟΤΕΛΕΣΜΑΤΑ ΤΟΥ ΠΙΣΤΟΠΟΙΗΤΙΚΟΥ ΣΧΕΤΙΖΟΝΤΑΙ ΜΟΝΟ ΜΕ ΤΑ ΣΥΓΓΕΚΡΙΜΕΝΑ ΑΝΤΙΚΕΙΜΕΝΑ ΠΟΥ ΥΠΟΒΛΗΘΗΚΑΝ ΣΕ ΔΟΚΙΜΗ / MODIFICATION OR PARTIAL REPRODUCTION OF THE TEST REPORT IS PROHIBITED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF BIOLAB. THE RESULTS OF THE CERTIFICATE RELATE ONLY TO THE SPECIFIC ITEMS TESTED.

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Δοκιμές
Αρ.Πιστ.139



TOTAL SUBSTANCES

TABLE 1- LCMSMS

Acetamiprid, Ametoctradin, Ametryn, Aminocarb, Amitraz, Anilofos, Aspon, Azaconazole, Azamethiphos, Azoxystrobin, Bflubutamid, Benalaxyl, Bensulfuron Methyl, Bensulide, Benthiavalicarb-isopropyl, Brodifacoum, Bromucanazole Isomer, Bupirimate, Buprofezin, Buturon, Carbendazim, Carbofuran, Carbosulfan, Carboxin, Carfentrazone-ethyl, Chlorfluazuron, Chloridazon, Chlorotoluron, Chloroxuron, Clethodim, Climbazole, Clodinafop-Propargyl, Clomazone, Cruformate, Cycluron, Cyflumetofen, Demeton-S-methyl sulfoxide, Diafenthiuron, Diclobutrazol, Diclosulam, Dicrotophos, Difenacoum, Difenconazole Isomer, Diflubenzuron, Dimethachlor, Dimethenamid, Dimethirimol, Dimethomorph Isomer, Ditalimfos, Diuron, Edifenphos, Emamectin-benzoate, Epoxiconazole, Etaconazole Isomer, Ethiprole, Ethirimol, Ethoprophos, Etoazole, Famphur, Fenamidone, Fenamiphos Sulfone, Fenamiphos sulfoxide, Fenazaquin, Fenbuconazole, Fenfuram, Fenoxycarb, Fenpropidin, Fenpropimorph, Fenpyrazamine, Fenpyroximate, Fensulfothion, Fenthion oxon sulfoxide, Fenthion Sulfoxide, Fenthion-oxon, Fenuron, Fipronil, Fipronil-desulfinyl, Fipronil-Sulfone, Fluazinam, Flubendiamide, Fludioxinil, Flufenoxuron, Fluometuron, Fluopicolide, Fluopyram, Fluoxastrobil, Flurprimidol, Flurtamone, Flusilazole, Flutolanil, Flutriafol, Fluxapyroxad, Forchlorfenuron, Formetanate HCl, Fosthiazate, Fuberidazole, Furalaxyl, Furathiocarb, Griseofulvin, Haloxyfop-methylESTER, Hexaconazole, Hexaflumuron, Hydramethylon, Imazalil, Imibenconazole, Imidacloprid, Ipconazole Isomer, Isofenphos-methyl, Isoproturon, Isopyrazam, Isoxathion, Linuron, Lufenuron, Mefenacet, Mepanipyrim, Mepronil, mesosulfuron methyl, Metaflumizone, Metalaxyl M, Metalaxyl, Metconazole, Methabenzthiazuron, Methabenzthiazuron, Methoprotryne, Methoxyfenozide, Metobromuron, Metosulam, Metoxuron, Metsulfuron-Methyl, Mexacarbate, Molinate, Monceren) Pencycuron, Monolinuron, Monuron, Myclobutanil, Norflurazon, Novaluron, Nuairimol, Omethoate, Oxadixyl, Paclobutrazol, Paraaxon, Penconazole, Penflufen, Penoxsulam, Penthiofpyrad, Phosphamidon, Picolinafen, Picoxystrobin, Pinoxaden, Piperophos, Pirimicarb Desmethyl, Pirimicarb, Prometon, Prometryne, Propamocarb, Propaquizafop, Propiconazole Isomer, Proquinazid, Prosulfocarb, Pymetrozine, Pyracarbolid, Pyraclostrobin, Pyridalyl, Pyridaphenthion, Pyrifenoxy, Pyrimethanil, Pyriminobac-methyl(E), Pyriofenone, Pyriproxifen, Pyroxsulam, Quinoxifen, Sebuthylazine, Secbumeton, Sedaxane, Siduron, Silthiofam, Simazine, Simeconazole, Simetryn, Spinetoram, Spirotetramat, Spiroxamine Isomer, Sulfotep, Tebuconazole, Tebufenozide, Tebufenpyrad, Tebutam, Tebutiuron, Teflubenzuron, Temephos, Tepraloxymid, Terbumeton, Terbutryn, Thiacloprid, Thidiazuron, Thifensulfuron-methyl, Thiobencarb, Thiophanate-methyl, Tolfenpyrad, Tralkoxydim, Triadimefon, Triazamate, Tricyclazole, Trifloxystrobin, Triflururon, Triflurosulfuron-methyl, Triticonazole, Zoxamide

ΑΠΑΓΟΡΕΥΕΤΑΙ Η ΤΡΟΠΟΠΟΙΗΣΗ Ή Η ΜΕΡΙΚΗ ΑΝΑΠΑΡΑΓΩΓΗ ΤΗΣ ΕΚΘΕΣΗΣ ΔΟΚΙΜΗΣ ΠΑΡΑ ΜΟΝΟ Η ΠΛΗΡΗΣ ΧΩΡΙΣ ΤΗ ΓΡΑΠΤΗ ΕΓΚΡΙΣΗ ΤΗΣ ΒΙΟΛΑΒ. ΤΑ ΑΠΟΤΕΛΕΣΜΑΤΑ ΤΟΥ ΠΙΣΤΟΠΟΙΗΤΙΚΟΥ ΣΧΕΤΙΖΟΝΤΑΙ ΜΟΝΟ ΜΕ ΤΑ ΣΥΓΚΕΚΡΙΜΕΝΑ ΑΝΤΙΚΕΙΜΕΝΑ ΠΟΥ ΥΠΟΒΛΗΘΗΚΑΝ ΣΕ ΔΟΚΙΜΗ / MODIFICATION OR PARTIAL REPRODUCTION OF THE TEST REPORT IS PROHIBITED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF BIOLAB. THE RESULTS OF THE CERTIFICATE RELATE ONLY TO THE SPECIFIC ITEMS TESTED.

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TABLE 2- GCMSMS

2-phenylphenol, bhc-a,acetochlor, acrinathrin, alachlor-b, anthraquinone, atrazine, azinphos_methyl, azoxystrobin*, b-bhc, benfluralin, bifenthrin, boscalid*, bromfenvinphos, bromfenvinphos_methyl, bromophos_ethyl, bromophos_methyl, bromopropylate, bupirimate, carbophenonthion, carfentrazone_ethyl, chlorantraniliprole*, chlorbenside, chlordane_cis, chlordane_trans, chlorfenson, chlorfenvinphos, chlorfenvinphos, chlorobenzilate, chlorpropham, chlorpyriphos, chlorpyriphos-methyl, chlorthal_dimethyl, chlorthiophos, clomazone, coumaphos, Cycloate, Cyfluthrin, Cymiazol*, Cypermethrin, cyproconazole*, cyprodinil, d-bhc, ddd-2, 4, ddd-4, 4, dde-2, 4, dde-4, 4, ddt-2, 4, ddt-4, 4, deltamethrin, dichlofluand, dichloran, dichlorobenzophenone-4, 4, dieldrin, difenoconazole*, dimethachlor, diphenamid, diphenylamine, dodemorph*, edifenphos, endosulfan_1, endosulfan_ether, endosulfan_sulfate, epn, esfenvalerate*, ethalfluralin, ethion, ethylan, etofenprox, fenarimol, fenchlorphos, fenitrothion, fenpropathrin, fenson, fenthion, fenvalerate-1, fenvalerate-2, fipronil, fipronilsulfone*, fipronildesulfinyl*, fluzafop-p-butyl, fluchloralin, flucythrinate-1, flucythrinate-2, fludioxonil, fluquinconazole, fluridone, flusilazole, flutolanil, flutriafol, fonofos, g-bhc, heptachlor_epoxide, heptachlor, hexazinone, indoxacarb*, iodofenphos, iprodione, isodrin, isopropalin, l-cyhalothrin, lenacil, leptophos, malathion, metazachlor, methoxychlor, methoxychlor_olefin-4, 4, metolachlor, mevinphos, mgk_264-1, mgk_264-2, mirex, myclobutanil, n, 2, 4-dimethylphenyl_formamide, nitratin, nitrofen, nonachlor_cis, nonachlor_trans, norflurazon, oxadiazon, oxyfluorfen, paclobutrazol, parathion, parathionmethyl, penconazole, pentachloroaniline, pentachlorobenzonitrile, pentachlorothioanisole, permethrin_cis, permethrin_trans, phenonhrin, phosalone, phosmet, piperonyl_butoxide, pirimiphos_ethyl, pirimicarb*pirimiphos_methyl, pretilachlor, procymidone, prodiamine, propachlor, propanil, propargite, propiconazole*, propisochlor, propyzamide, pyrazophos, pyridaben, pyridafenthion, pyriproxyfen, quinalphos, quintozone, resmethrin, spiromesifen*, sulfotep, sulprophos, tau-fluvalinate, tebuconazole, tebufenpyrad, tefluthrin, terbacil, terbufos, terbuthylazine, tetrachlorvinphos, tetraconazole*, tetradifon, tetramethrin, tolclafos_methyl, tolylfluand, transfluthrin, triadimefon, triadimenol, triallate, triazophos, trifloxystrobin*, triflumizole, trifluralin, triticonazole*, vinclozolin

*substances of tables are not accredited

FINAL APPROVAL

ΜΠΑΡΔΑ ΕΛΙΝΑ - Mrs Barda Elina

ΟΙ ΑΝΑΛΥΤΕΣ
THE ANALYSTS

Tzimas Sotiris Biolab
GEN. DIRECTOR

ΕΓΚΡΙΣΗ ΑΠΟ
APPROVED BY

G.D. - ΣΩΤΗΡΗΣ ΤΖΙΜΑΣ - Mr Tzimas Sotiris
Γενικός Διευθυντής

2025-12-09

END OF CERTIFICATE 122663