

CERTIFICATE OF ANALYSIS

COSTUMER:

OLIVAPALACIOS S.L.
C/ZURBANO, 49. OF 1
28018 MADRID
MADRID

Certificate of Analysis (1): 41223175525 / M5/I

Laboratory reference: 1/9.467

Date of receipt: 19/12/2024

Final date of Analysis: 23/12/2024

Issue date: 23/12/2024

Sample for Testing: Olive Oils

Packing: BOTE VIDRIO OPACO 500ml TAPÓN PRECINTO NEGRO

Quantity: 500ml

DATA PROVIDED BY CLIENT (2)

#Sample reference: S102409

ANALYSIS RESULTS

Determination	Result	Unit	Limits	Procedure
Acidity				
Acidity	0.11	% (ac.oleic.)	≤ 0.8 (Nota 1)	PNT 1.08
Peroxide index				
Peroxide index	2.4	meq O2/kg	≤ 20 (Nota 1)	PNT 1.09
Spectrophotometric analysis				
K 270	0.12	-	≤ 0.22 (Nota 1)	PNT 1.10
K 232	1.57	-	≤ 2.50 (Nota 1)	PNT 1.10
ΔK	<0.01	-	≤ 0.01 (Nota 1)	PNT 1.10
Moisture				
Moisture and volatile matter	0.14	%	≤ 0.2 (Nota 2)	PNT 1.11
Insoluble impurities				
Impurities (Petroleum ether)	<0.05	%	≤ 0.10 (Nota 2)	PNT 1.12
Ethyl Ester				
Ethyl ester	<10	mg/kg	Max 35 (Nota 1)	PNT 1.20
Content of waxes				
C40 + C42 + C44 + C46	134	mg/kg	No aplica (Nota 1)	PNT 1.20
C42 + C44 + C46	41	mg/kg	≤ 150 (Nota 1)	PNT 1.20
Total sterols and composition				
Total sterols	1284	mg/kg	≥ 1000 (Nota 1)	PNT 1.29
Cholesterol	<0.1	%	≤ 0.5 (Nota 1)	PNT 1.29
Brassicasterol	<0.1	%	≤ 0.1 (Nota 1)	PNT 1.29
Campesterol	4.2	%	≤ 4.0 (Nota 1)	PNT 1.29
Stigmasterol	1.0	%	< Camp (Nota 1)	PNT 1.29
β-sitosterol (apparent)	93.5	%	≥ 93.0 (Nota 1)	PNT 1.29
Δ-7-Stigmastenol	0.3	%	≤ 0.5 (Nota 1)	PNT 1.29



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Determination	Result	Unit	Limits	Procedure
Erythrodiol and Uvaol				
Erythrodiol and uvaol	1.8	%	≤ 4.5 (Nota 1)	PNT 1.29
Stigmastadienes				
Stigmastadiene	<0.02	mg/kg	≤ 0.05 (Nota 1)	PNT 1.16
Fatty acid Content				
Lauric (C12:0)	<0.02	%	No aplica	PNT 1.14
Myristic (C14:0)	0.01	%	≤ 0.03 (Nota 1)	PNT 1.14
Palmitic (C16:0)	13.43	%	7.00 -20.00 (Nota 1)	PNT 1.14
Palmitoleic (C16:1)	1.18	%	0.30 -3.50 (Nota 1)	PNT 1.14
Margaric (C17:0)	0.12	%	≤ 0.40 (Nota 1)	PNT 1.14
Margaroleic (C17:1)	0.25	%	≤ 0.60 (Nota 1)	PNT 1.14
Stearic (C18:0)	1.82	%	0.50 -5.00 (Nota 1)	PNT 1.14
Oleic (C18:1)	73.80	%	55.00 -85.00 (Nota 1)	PNT 1.14
Linoleic (C18:2)	7.93	%	2.50 -21.00 (Nota 1)	PNT 1.14
Linolenic (C18:3)	0.57	%	≤ 1.00 (Nota 1)	PNT 1.14
Arachidic (C20:0)	0.39	%	≤ 0.60 (Nota 1)	PNT 1.14
Eicosenoic (C20:1)	0.31	%	≤ 0.50 (Nota 1)	PNT 1.14
Behenic (C22:0)	0.13	%	≤ 0.20 (Nota 1)	PNT 1.14
Erucic (C22:1)	<0.10	%	No aplica	PNT 1.14
Lignoceric (C24:0)	0.07	%	≤ 0.20 (Nota 1)	PNT 1.14
Sum of trans Isomers				
Tr Oleic (C18:1T)	<0.03	%	≤ 0.05 (Nota 1)	PNT 1.14
Tr L (C18:2T) + Tr Ln (C18:3T)	<0.03	%	≤ 0.05 (Nota 1)	PNT 1.14
*Total Polyphenols				
* Polyphenols (Cafeic)	276	mg Ac.cafeico/kg		PNT 1.56 (Folin -Ciocalteu)
Determination of Pyropheophytin A				
Pyropheophytin A	0.8	%		PNT 1.77
*Cupric chlorophyllins				
* Cupric chlorophyllins	<0.05	mg/Kg		
Inherent plant toxins				
Erucid acid	<2.0	g/kg	≤ 20.0 (Nota 4)	PNT 1.14

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Determination	Result	Unit	Limits	Procedure
Metals.Note f)				
Iron	<1.0	mg/kg	Max 3 (Nota 2)	ICP/MS (Ver Nota f))
Copper	<0.10	mg/kg	Max 0.1 (Nota 2)	ICP/MS (Ver Nota f))
Lead	<0.020	mg/kg	Max 0.10 (Nota 4)	ICP/MS (Ver Nota f))
Total Arsenic	<0.020	mg/kg	Max 0.1 (Nota 2)	ICP/MS (Ver Nota f))
*Aflatoxin				
* Aflatoxin B1	<0.5	ug/kg		HPLC-MS
* Aflatoxin B2	<0.5	ug/kg		HPLC-MS
* Aflatoxin G1	<0.5	ug/kg		HPLC-MS
* Aflatoxin G2	<0.5	ug/kg		HPLC-MS
* Total Aflatoxins	<0.5	ug/kg		HPLC-MS
*Antioxidants				
* Propyl gallate (PG)	<1.0	mg/kg		HPLC-UV
* Tertiary butyl hydroquinone (TBHQ)	<1.0	mg/kg		HPLC-UV
* Butylated hydroxyanisole (BHA)	<1.0	mg/kg		HPLC-UV
* Butylated Hydroxytoluene (BHT)	<1.0	mg/kg		HPLC-UV
* Octyl gallate (OG)	<1.0	mg/kg		HPLC-UV
* Dodecyl gallate (DG)	<1.0	mg/kg		HPLC-UV
* Nordihydroguaiaretic Acid (NDGA)	<1.0	mg/kg		HPLC-UV
* Sum of gallates, BHA, BHT and TBHQ	<6.0	mg/kg		HPLC-UV
Polycyclic aromatic hydrocarbons				
Benzo(a)anthracene	<0.5	ug/kg		PNT 1.23
Chrysene	<0.5	ug/kg		PNT 1.23
Benzo(b)fluoranthene	<0.5	ug/kg		PNT 1.23
Benzo(a)pyrene	<0.5	ug/kg	Máx 2.0 (Nota 4)	PNT 1.23
PAH4 (sum B(a)A+Cr+B(b)F+B(a)P)	<2.0	ug/kg	Máx 10.0 (Nota 4)	PNT 1.23



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ANALYSIS RESULTS

Multiresidue (GC-MS/MS)

Procedure: PNT 1.13

Unit: mg/kg

Determination	Result	Determination	Result	Determination	Result
* 2,4-Methoxychlor	<0.010	2-Phenylphenol(OPP)	<0.010	Acetochlor	<0.010
Acrinathrin	<0.010	Alachlor	<0.010	* Aldrin	<0.010
* Ametryn	<0.010	Anthraquinone	<0.010	Atrazine	<0.010
* Azinphos-ethyl	<0.010	* Azinphos-methyl	<0.010	Azoxystrobin	<0.010
Benalaxyl	<0.010	* Bendiocarb	<0.010	Benfluralin	<0.010
* Bifenox	<0.010	Bifenthrin	<0.010	* Biphenyl	<0.010
Boscalid	<0.010	* Bromacil	<0.010	Bromfenvinphos-ethyl	<0.010
Bromfenvinphos-methyl	<0.010	Bromophos-ethyl	<0.010	Bromophos-methyl	<0.010
Bromopropylate	<0.010	Bupirimate	<0.010	Buprofezin	<0.010
* Carbaryl	<0.010	* Carbofuran (No Sum)	<0.010	Carbophenothion	<0.010
Carfentrazone-ethyl (No Sum)	<0.010	Chlorantraniliprole	<0.010	Chlorbenside	<0.010
Chlordane (cis+trans)	<0.015	Chlordane cis	<0.010	Chlordane trans	<0.010
Chlorfenapyr	<0.010	Chlorfenson	<0.010	Chlorfenvinphos	<0.010
* Chlornitrofen	<0.010	Chlorobenzilate	<0.010	Chloroneb	<0.010
* Chlorothalonil	<0.010	Chlorpropham	<0.010	Chlorpyrifos	<0.010
Chlorpyrifos-methyl	<0.010	Chlorthal-dimethyl	<0.010	Chlorthiophos	<0.010
* Chlozolinate	<0.010	* Chrotoxyphos	<0.010	Clomazone	<0.010
Coumaphos	<0.010	Cyfluthrin (sum of isomers)	<0.010	Cyhalofop-butyl	<0.010
Cypermethrin (sum of isomers)	<0.010	* Cyproconazole	<0.010	Cyprodinil	<0.010
Deltamethrin	<0.010	Di-allate	<0.010	Diazinon	<0.010
* Dichlobenil	<0.010	Dichlofluanid	<0.010	Dichlorobenzophenone, 4,4'-	<0.010
* Dichlorvos	<0.010	Dicloran	<0.010	Dieldrin	<0.010

Laboratorio Tello S.L.U.

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Nuestras políticas



Tests marked (*) are not included in scope of Accreditation of ENAC.
Activities marked (#) are not included in scope of Accreditation of ENAC.

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ANALYSIS RESULTS

Multiresidue (GC-MS/MS)

Procedure: PNT 1.13

Unit: mg/kg

Determination	Result	Determination	Result	Determination	Result
Diethofencarb	<0.010	Difenoconazole	<0.010	Diflufenican	<0.010
Dimethachlor	<0.010	Dimethenamid	<0.010	* Dimethoate	<0.010
Diphenamid	<0.010	Diphenylamine	<0.010	* Disulfoton (No Sum)	<0.010
* Diuron	<0.010	Edifenphos	<0.010	Endosulfan	<0.020
				(alpha+beta+sulphate)	
Endosulfan alpha	<0.010	Endosulfan beta	<0.010	Endosulfan sulfate	<0.010
Endrin	<0.010	* Endrin ketone	<0.010	EPN	<0.010
Ethalfuralin	<0.010	Ethion	<0.010	Ethofumesate (No Sum)	<0.010
Ethylan	<0.010	* Etofenprox	<0.010	Etoxazole	<0.010
1,1-dichloro-2,2-bis(4-ethylphenyl)ethane					
* Etridiazole	<0.010	Etrimfos	<0.010	Fenamidone	<0.010
* Fenamiphos (No Sum)	<0.010	Fenarimol	<0.010	* Fenazaquin	<0.010
Fenchlorphos (No Sum)	<0.010	Fenitrothion	<0.010	Fenpropathrin	<0.010
Fenson	<0.010	Fenthion (No Sum)	<0.010	Fenvalerate	<0.010
Fipronil (No Sum)	<0.010	Fluazifop-butyl (No Sum)	<0.010	Fluchloralin	<0.010
Flucythrinate	<0.010	Fludioxonil	<0.010	Flumioxazin	<0.010
Fluopicolide	<0.010	* Fluorodifen	<0.010	Fluquinconazole	<0.010
Fluridone	<0.010	Flusilazole	<0.010	Fluvalinate-Tau	<0.010
* Folpet (+Folpet deg.)	<0.010	Fonofos	<0.010	* Formothion	<0.010
* Genite	<0.010	Haloxypop-etotyl	<0.010	Haloxypop-methyl	<0.010
				(incl.H.p-methyl)	
* HCH (alpha+beta+delta)	<0.020	HCH alpha	<0.010	* HCH beta	<0.010
HCH delta	<0.010	Heptachlor	<0.010	Heptachlor (+heptachlor epoxide)	<0.015
Heptachlor epoxide	<0.010	Heptenophos	<0.010	* Hexachlorobenzene	<0.010
* Hexazinone	<0.010	* Indanofan	<0.010	* Indoxacarb	<0.010



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Multiresidue (GC-MS/MS)

Procedure: PNT 1.13

Unit: mg/kg

Determination	Result		Determination	Result		Determination	Result
Iodofenphos	<0.010		* Iprodione	<0.010		Isazofos	<0.010
* Isodrin	<0.010		Isofenphos	<0.010		Isofenphos-methyl	<0.010
Isopropalin	<0.010		Kresoxim-methyl	<0.010		Lambda-Cyhalothrin	<0.010
* Lenacil	<0.010		Leptophos	<0.010		* Lindane (HCH-g)	<0.010
* Linuron	<0.010		Malathion (No Sum)	<0.010		Mefenpyr-diethyl	<0.010
Metazachlor (No Sum)	<0.010		Methacrifos	<0.010		Methidathion	<0.010
* Methoxychlor	<0.010		Metolachlor (No Sum)	<0.010		Metrafenone	<0.010
Metribuzin	<0.010		* Mevinphos	<0.010		Myclobutanil	<0.010
* Nitralin	<0.010		Nitrofen	<0.010		* Nonachlor (cis+trans)	<0.015
* Nonachlor cis	<0.010		* Nonachlor trans	<0.010		Norflurazon	<0.010
Nuarimol	<0.010		o,p'-DDD	<0.010		o,p'-DDE	<0.010
* o,p'-DDT	<0.010		Oxadiazon	<0.010		* Oxadixyl	<0.010
Oxyfluorfen	<0.010		* p,p'-DDD	<0.010		* p,p'-DDE	<0.010
* p,p'-DDT	<0.010		Paclobutrazol	<0.010		Parathion-ethyl	<0.010
Parathion-methyl (No Sum)	<0.010		Pebulate	<0.010		Penconazole	<0.010
Pendimethalin	<0.010		Pentachloroaniline	<0.010		* Pentachloroanisole	<0.010
* Pentachlorobenzene	<0.010		Pentachlorobenzonitrile	<0.010		* Pentachlorothioanisole	<0.010
Permethrin (cis+trans)	<0.015		Permethrin cis	<0.010		Permethrin trans	<0.010
Phenothrin	<0.010		Phenthoate	<0.010		Phorate (No Sum)	<0.010
Phosalone	<0.010		Phosmet	<0.010		Piperonylbutoxide	<0.010
Pirimicarb	<0.010		Pirimiphos-ethyl	<0.010		Pirimiphos-methyl	<0.010
Pretilachlor	<0.010		* Prochloraz	<0.010		Procymidone	<0.010
Prodiamine	<0.010		Profenofos	<0.010		Profluralin	<0.010
Prometryn	<0.010		Propachlor (No Sum)	<0.010		Propanil	<0.010
Propargite	<0.010		Propiconazole	<0.010		Propisochlor	<0.010
Propyzamide	<0.010		* Prosulfocarb	<0.010		Prothiofos	<0.010



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Multiresidue (GC-MS/MS)

Procedure: PNT 1.13

Unit: mg/kg

Determination	Result		Determination	Result	Determination	Result
Pyraclufos	<0.010	*	Pyraclostrobin	<0.010	Pyraflufen-ethyl (No Sum)	<0.010
Pyrazophos	<0.010		Pyridaben	<0.010	Pyridaphenthion	<0.010
Pyrifenox	<0.010		Pyrimethanil	<0.010	Pyriproxyfen	<0.010
Quinalphos	<0.010		Quinoxifen	<0.010	Quintozene	<0.010
Quintozene	<0.015	*	Resmethrin	<0.010	Simazine	<0.010
(+pentacloroaniline)						
Sulfotep	<0.010		Sulprofos	<0.010	* Tebuconazole	<0.010
Tebufenpyrad	<0.010		Tecnazene	<0.010	Tefluthrin	<0.010
* Terbacil	<0.010		Terbufos	<0.010	* Terbumeton	<0.010
Terbuthylazine	<0.010		Terbutryn	<0.010	Tetrachloroaniline, 2	<0.010
Tetrachlorvinphos	<0.010		Tetraconazole	<0.010	Tetradifon	<0.010
* Tetramethrin	<0.010		Tolclofos-methyl	<0.010	Tolylfluanid (No Sum)	<0.010
Transfluthrin	<0.010		Triadimefon	<0.010	* Triadimenol	<0.010
Tri-allate	<0.010		Triazophos	<0.010	* Tridiphane	<0.010
Trietazine	<0.010		Trifloxystrobin	<0.010	Trifluralin	<0.010
Vinclozolin	<0.010					

The values of indicated limits are for the category: Extra Virgin Olive Oil

Comments:



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Note 1: Limits indicated in Implementing Regulation (EU) 2023/731.

Note 2: Limits of CODEX Stan 33-1981. Last rev.

Note 3: Limits specified in the COI/T.15/NC N°3

Note 4: Limits specified in the (UE) Regulation 2023/915 and subsequent amendments.

The Maximum Residue Limits for Olives for oil are indicated (Reg.UE 396/2005 and post mod). According to Reg. Execution (UE) 2022/741, to calculate the MRL in olive oil, it will be multiplied by the transformation factor of the oil established in each Member State.

Pesticides indicated with "(No Sum)" do not include the full EU pesticide residue definition.

Nota f) Ensayo cubierto por la acreditación N° 493/LE1019

- La composición de esteroides cumple con el árbol de decisiones para el Campesterol del Reglamento Delegado (UE) 2022/2104.

NOTES:

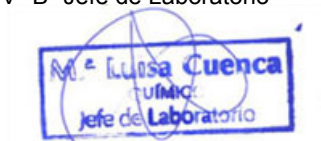
Results that are expressed as a sum have been calculated prior to the rounding of decimals of each of the individually reported results.

LC: limit of quantification. PNT: Normalized Work Procedure.

The calculated uncertainty (U), in physicochemical parameters, is for a confidence level of 95% (k = 2), expressed in absolute value.

Analytical methods results that include extraction phase have not been corrected because recovery factors are between 95% - 105%

Vº Bº Jefe de Laboratorio


Fdo: M.ª Luisa Cuenca de los Cobos

(1) This report has been issued by Laboratorio Juan Antonio Tello S.L.U.

(2) Laboratorio Juan Antonio Tello S.L.U. is not responsible for the information of the sample provided by the client or for the sample collection.

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amparados por la acreditación de ENAC.
Las actividades marcadas con (#) no están
amparadas por la acreditación de ENAC.

CLIENTE:

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INFORME DE ENSAYO

Informe de Ensayo (1): 41118165718 / M3/E

Ref. Laboratorio: 1/3.722

Fecha de Recepción: 12/11/2024

Fecha Fin Análisis: 18/11/2024

Fecha de Emisión: 18/11/2024

Matriz a Ensayar: Aceites de Oliva

Envase: 2 BOTES VIDRIO OPACOS 500ml TAPÓN PRECINTO NEGRO

Cantidad: 1L

DATOS APORTADOS POR EL CLIENTE (2)

#Ref. Muestra: S102409

RESULTADOS DEL ANÁLISIS

DETERMINACIÓN	RESULTADO	PROCEDIMIENTO
Valoración organoléptica		
Mediana Frutado	6.4	COI/T.20/Doc nº 15
Mediana Defecto	0.0	COI/T.20/Doc nº 15
Clasificación sensorial	VIRGEN EXTRA	COI/T.20/Doc nº 15. Clasf Reg 2022/2104

Vº Bº Jefe de Panel

Ana M.ª Camacho
Jefe de Panel

(1) Este informe ha sido emitido por Laboratorio Juan Antonio Tello S.L.U.

(2) El Laboratorio Juan Antonio Tello S.L.U. no se hace responsable de la información de la muestra aportada por el cliente ni de la toma de muestra.

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