

CERTIFICATE OF ANALYSIS

COSTUMER:

OLEA TRADING

RUE TÉTOUAN

10020 RABAT

RABAT

Certificate of Analysis (1): 51223115743 / M5/I

Laboratory reference: 1/9.350

Date of receipt: 11/12/2025

Final date of Analysis: 16/12/2025

Issue date: 23/12/2025

Sample for Testing: Olive Oils

Packing: BOTE PET OPACO 500ml TAPÓN PRECINTO VERDE

Quantity: 500ml

DATA PROVIDED BY CLIENT (2)

#Sample reference: PRESTIGE.

ANALYSIS RESULTS

Determination	Result	Unit	Limits	Procedure
Acidity				
Acidity	0.14	% (ac.oleic.)	≤ 0.8 (Nota 1)	PNT 1.08
Peroxide index				
Peroxide index	3.6	meq O2/kg	≤ 20 (Nota 1)	PNT 1.09
Spectrophotometric analysis				
K 270	0.19	-	≤ 0.22 (Nota 1)	PNT 1.10
K 232	1.92	-	≤ 2.50 (Nota 1)	PNT 1.10
ΔK	<0.01	-	≤ 0.01 (Nota 1)	PNT 1.10
Moisture				
Moisture and volatile matter	0.10	%	≤ 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	73	mg/kg	No aplica (Nota 1)	PNT 1.20
C42 + C44 + C46	43	mg/kg	≤ 150 (Nota 1)	PNT 1.20
Total sterols and composition				
Total sterols	2517	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	3.0	%	≤ 4.0 (Nota 1)	PNT 1.29
Stigmasterol	1.1	%	< Camp (Nota 1)	PNT 1.29
β-sitosterol (apparent)	95.1	%	≥ 93.0 (Nota 1)	PNT 1.29
Δ-7-Stigmastenol	0.2	%	≤ 0.5 (Nota 1)	PNT 1.29



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Determination	Result	Unit	Limits	Procedure
Erythrodiol and Uvaol				
Erythrodiol and uvaol	1.2	%	≤ 4.5 (Nota 1)	PNT 1.29
Fatty acid Content				
Lauric (C12:0)	<0.02	%	No aplica	PNT 1.14
Myristic (C14:0)	0.03	%	≤ 0.03 (Nota 1)	PNT 1.14
Palmitic (C16:0)	13.70	%	7.00 -20.00 (Nota 1)	PNT 1.14
Palmitoleic (C16:1)	1.06	%	0.30 -3.50 (Nota 1)	PNT 1.14
Margaric (C17:0)	0.04	%	≤ 0.40 (Nota 1)	PNT 1.14
Margaroleic (C17:1)	0.08	%	≤ 0.60 (Nota 1)	PNT 1.14
Stearic (C18:0)	1.74	%	0.50 -5.00 (Nota 1)	PNT 1.14
Oleic (C18:1)	70.90	%	55.00 -85.00 (Nota 1)	PNT 1.14
Linoleic (C18:2)	10.38	%	2.50 -21.00 (Nota 1)	PNT 1.14
Linolenic (C18:3)	1.27	%	≤ 1.00 (Nota 1)	PNT 1.14
Arachidic (C20:0)	0.32	%	≤ 0.60 (Nota 1)	PNT 1.14
Eicosenoic (C20:1)	0.31	%	≤ 0.50 (Nota 1)	PNT 1.14
Behenic (C22:0)	0.09	%	≤ 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
Dif ECN42 (HPLC) and ECN42 theoretical				
Difference ECN42	0.06		≤ 0.2 (Nota 1)	PNT 1.19
2-glyceril Monopalmitate				
2-glyceril monopalmitate	0.6	%	Ver Nota A (Nota 1)	PNT 1.58
*Biophenols by HPLC				
* Biophenols by HPLC	490.5	mg/kg (tirosol)		COI/T.20/Doc.29
* Tyrosol	3.2	mg/kg		COI/T.20/Doc.29
* Hydroxytyrosol	<1.0	mg/kg (tirosol)		COI/T.20/Doc.29
* Oleacein	83.0	mg/kg (tirosol)		COI/T.20/Doc.29
* Oleocanthal	32.7	mg/kg (tirosol)		COI/T.20/Doc.29



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Determination	Result	Unit	Limits	Procedure
*Total Polyphenols				
* Polyphenols (Cafeic)	649	mg Ac.cafeico/kg		PNT 1.56 (Folin -Ciocalteu)
*Hydrocarbons from mineral oil				
* MOSH/POSH C10-C16	<0.5	mg/kg		PNT 1.40(HPLC-GC-FID)
* MOSH/POSH C16-C20	<0.5	mg/kg		PNT 1.40(HPLC-GC-FID)
* MOSH/POSH C20-C25	<0.5	mg/kg		PNT 1.40(HPLC-GC-FID)
* MOSH/POSH C25-C35	0.81±0.17	mg/kg		PNT 1.40(HPLC-GC-FID)
* MOSH/POSH C35-C40	<0.5	mg/kg		PNT 1.40(HPLC-GC-FID)
* MOSH/POSH C40-C50	<0.5	mg/kg		PNT 1.40(HPLC-GC-FID)
* MOSH/POSH C10-C50	1.6±0.3	mg/kg		PNT 1.40(HPLC-GC-FID)
* MOAH C10-C16	<0.5	mg/kg		PNT 1.40(HPLC-GC-FID)
* MOAH C16-C25	<0.5	mg/kg		PNT 1.40(HPLC-GC-FID)
* MOAH C25-C35	<0.5	mg/kg		PNT 1.40(HPLC-GC-FID)
* MOAH C35-C50	<0.5	mg/kg		PNT 1.40(HPLC-GC-FID)
* MOAH C10-C50	<1.0	mg/kg		PNT 1.40(HPLC-GC-FID)
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)

Maximum Residue Limits are indicated for unprocessed raw materials (EU Regulation 396/2005 and subsequent amendments). See Note MR.

Multiresidue (GC-MS/MS)

Procedure: PNT 1.13

Unit: mg/kg

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Sample for Testing: Olive Oils

ANALYSIS RESULTS

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
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 (alpha+beta+sulphate)	<0.020



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Multiresidue (GC-MS/MS)

Procedure: PNT 1.13

Unit: mg/kg

Determination	Result	Determination	Result	Determination	Result
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 (incl.H.p-methyl)	<0.010
* 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
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



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ANALYSIS RESULTS

Multiresidue (GC-MS/MS)

Procedure: PNT 1.13

Unit: mg/kg

Determination	Result	Determination	Result	Determination	Result
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
Pyraclofos	<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



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ANALYSIS RESULTS

Multiresidue (GC-MS/MS)

Procedure: PNT 1.13

Unit: mg/kg

Determination	Result		Determination	Result		Determination	Result
Quintozene (+pentachloroaniline)	<0.015	*	Resmethrin	<0.010		Simazine	<0.010
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
Terbutylazine	<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		Tolyfluanid (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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ANALYSIS RESULTS

Note 1: Limits indicated in Implementing Regulation (EU) 2022/2104 and subsequent modifications.

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.

Note MR: As established in Article 20 of Regulation 396/2005, to determine the MRL in processed products (olive oil), it is necessary to apply processing factors to the MRL of the original product (olives for oil). According to AESAN, in its note of February 28, 2024, the concentration factor for olive oil can be between 3 and 5.

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

Note A: Max 0.9 (if Ac.Palmitic < 14 %) Max 1.0 (if Ac.P > 14%)

Note f) Test covered by accreditation N° 493/LE1019

The MOSH fraction was subjected to ALOX clean-up to eliminate natural hydrocarbons.

The MOAH fraction was subjected to epoxidation to eliminate potential interference, e.g. olefins.

- The fatty acid composition complies with the decision tree for linolenic acid of Delegated Regulation (EU) 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: Mª 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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Laboratorio Tello S.L.U.

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Nuestras políticas



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

INFORME DE ENSAYO

CLIENTE:

OLEA TRADING

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Informe de Ensayo (1): 60107102311 / M3/E

Ref. Laboratorio: 1/9.350

Fecha de Recepción: 11/12/2025

Fecha Fin Análisis: 07/01/2026

Fecha de Emisión: 07/01/2026

Matriz a Ensayar: Aceites de Oliva

Envase: BOTE PET OPACO 500ml TAPÓN PRECINTO VERDE

Cantidad: 500ml

DATOS APORTADOS POR EL CLIENTE (2)

#Ref. Muestra: PRESTIGE.

RESULTADOS DEL ANÁLISIS

DETERMINACIÓN	RESULTADO	PROCEDIMIENTO
Valoración organoléptica		
Mediana Frutado	7.0	COI/T.20/Doc nº 15
Mediana Defecto	0.0	COI/T.20/Doc nº 15
Clasificación sensorial	VIRGEN EXTRA	COI/T.20/Doc.Nº15.Rev11. Clasf Reg 2022/2104

P.O. (Jefe de Panel)

Laboratorio J.A. TELLO
Análisis y Servicios Técnicos Oleícolas
- JAÉN -
Fdo: M^a Belén Muñoz Vidal

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Laboratorio Tello S.L.U.

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Nuestras políticas



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