

CERTIFICATE OF ANALYSIS

COSTUMER:

OLIVAPALACIOS S.L.

C/ZURBANO, 49. OF 1

**28018 MADRID
MADRID**

Certificate of Analysis (1): 50219181523 / M1/I

Laboratory reference: 1/18.514

Date of receipt: 17/02/2025

Final date of Analysis: 19/02/2025

Issue date: 19/02/2025

Sample for Testing: Olive Oils

Packing: BOTE VIDRIO OPACO 500ml TAPÓN PRECINTO NEGRO

Quantity: 500ml

DATA PROVIDED BY CLIENT (2)

#Sample reference: S102404

ANALYSIS RESULTS

DETERMINATION	RESULT	UNIT	LÍMIT	PROCEDURE
Acidity				
Acidity	0.13	% (ac.oleic.)	≤ 0.8 (Nota 1)	PNT 1.08
Peroxide index				
Peroxide index	3.8	meq O2/kg	≤ 20 (Nota 1)	PNT 1.09
Spectrophotometric analysis				
K 270	0.11	-	≤ 0.22 (Nota 1)	PNT 1.10
K 232	1.55	-	≤ 2.50 (Nota 1)	PNT 1.10
ΔK	<0.01	-	≤ 0.01 (Nota 1)	PNT 1.10
Moisture				
Moisture and volatile matter	0.09	%	≤ 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	61	mg/kg	No aplica (Nota 1)	PNT 1.20
C42 + C44 + C46	23	mg/kg	≤ 150 (Nota 1)	PNT 1.20

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CIF: B23803988

Polig. Los Olivares, C/ La Iruela 12, 23009 Jaén

Telf +34953281116

laboratorio@laboratoriotello.com

www.laboratoriotello.com



Nuestras políticas



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Total sterols and composition				
Total sterols	1344	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	3.7	%	≤ 4.0 (Nota 1)	PNT 1.29
Stigmasterol	0.9	%	< Camp (Nota 1)	PNT 1.29
β-sitosterol (apparent)	94.4	%	≥ 93.0 (Nota 1)	PNT 1.29
Δ-7-Stigmasterol	0.2	%	≤ 0.5 (Nota 1)	PNT 1.29
Erythrodiol and Uvaol				
Erythrodiol and uvaol	1.7	%	≤ 4.5 (Nota 1)	PNT 1.29
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)	12.52	%	7.00 -20.00 (Nota 1)	PNT 1.14
Palmitoleic (C16:1)	1.22	%	0.30 -3.50 (Nota 1)	PNT 1.14
Margaric (C17:0)	0.12	%	≤ 0.40 (Nota 1)	PNT 1.14
Margaroleic (C17:1)	0.28	%	≤ 0.60 (Nota 1)	PNT 1.14
Stearic (C18:0)	2.06	%	0.50 -5.00 (Nota 1)	PNT 1.14
Oleic (C18:1)	76.49	%	55.00 -85.00 (Nota 1)	PNT 1.14
Linoleic (C18:2)	5.81	%	2.50 -21.00 (Nota 1)	PNT 1.14
Linolenic (C18:3)	0.60	%	≤ 1.00 (Nota 1)	PNT 1.14
Arachidic (C20:0)	0.39	%	≤ 0.60 (Nota 1)	PNT 1.14
Eicosenoic (C20:1)	0.29	%	≤ 0.50 (Nota 1)	PNT 1.14

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Behenic (C22:0)	0.15	%	≤ 0.20 (Nota 1)	PNT 1.14
Erucic (C22:1)	<0.10	%	No aplica	PNT 1.14
Lignoceric (C24:0)	0.06	%	≤ 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)	338	mg Ac.cafeico/kg		PNT 1.56 (Folin -Ciocalteu)
*Cupric chlorophyllins				
* Cupric chlorophyllins	<0.05	mg/Kg		

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

Comments:

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

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



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<u>DETERMINATION</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LÍMIT</u>	<u>PROCEDURE</u>
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

M.ª Luisa Cuenca
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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