

CERTIFICATE OF ANALYSIS

COSTUMER:

OLIVE JARDIN MARKETING

No.1159, TAMAN MUTTAQIN, JALAN DATO LUNDANG

**15200 KOTA BHARU
KELANTAN**

Certificate of Analysis (1): 60309134240 / M1/I

Laboratory reference: 1/21.510

Date of receipt: 02/03/2026

Final date of Analysis: 06/03/2026

Issue date: 09/03/2026

Sample for Testing: Olive Oils

Packing: 2 BOTES PET OPACOS 500ml TAPÓN PRECINTO NEGRO

Quantity: 1L

DATA PROVIDED BY CLIENT (2)

#Sample reference: MOUMNANI EXTRA VIRGIN OLIVE OIL

ANALYSIS RESULTS

DETERMINATION	RESULT	UNIT	LÍMIT	PROCEDURE
Acidity				
Acidity	0.16	% (ac.oleic.)	≤ 0.8 (Nota 1)	PNT 1.08
Peroxide index				
Peroxide index	4.8	meq O2/kg	≤ 20 (Nota 1)	PNT 1.09
Spectrophotometric analysis				
K 270	0.11	-	≤ 0.22 (Nota 1)	PNT 1.10
K 232	1.56	-	≤ 2.50 (Nota 1)	PNT 1.10
ΔK	<0.01	-	≤ 0.01 (Nota 1)	PNT 1.10
Iodine index				
Iodine Index (Met. Wijs)	79	g iodo / 100 g	75 - 94 (Nota 2)	PNT 1.72
Saponification value				
Saponification value	196	mg KOH/g aceite	184- 196 (Nota 2)	PNT 1.73
Refraction Index				
Refraction Index (line D at 20°C)	1.4685	-	1.4677 - 1.4705 (Nota 2)	PNT 1.71
Ethyl Ester				
Ethyl ester	<10	mg/kg	Max 35 (Nota 1)	PNT 1.20
Content of waxes				

Laboratorio Tello S.L.U.

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Nuestras políticas



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ANALYSIS RESULTS

DETERMINATION	RESULT	UNIT	LÍMIT	PROCEDURE
C40 + C42 + C44 + C46	87	mg/kg	No aplica (Nota 1)	PNT 1.20
C42 + C44 + C46	28	mg/kg	≤ 150 (Nota 1)	PNT 1.20
Total sterols and composition				
Total sterols	1524	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	3.4	%	≤ 4.0 (Nota 1)	PNT 1.29
Stigmasterol	0.8	%	< Camp (Nota 1)	PNT 1.29
β-sitosterol (apparent)	94.6	%	≥ 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	2.4	%	≤ 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)	13.09	%	7.00 -20.00 (Nota 1)	PNT 1.14
Palmitoleic (C16:1)	1.27	%	0.30 -3.50 (Nota 1)	PNT 1.14
Margaric (C17:0)	0.12	%	≤ 0.40 (Nota 1)	PNT 1.14
Margaroleic (C17:1)	0.24	%	≤ 0.60 (Nota 1)	PNT 1.14
Stearic (C18:0)	2.26	%	0.50 -5.00 (Nota 1)	PNT 1.14
Oleic (C18:1)	73.67	%	55.00 -85.00 (Nota 1)	PNT 1.14



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DETERMINATION	RESULT	UNIT	LÍMIT	PROCEDURE
Linoleic (C18:2)	7.94	%	2.50 -21.00 (Nota 1)	PNT 1.14
Linolenic (C18:3)	0.62	%	≤ 1.00 (Nota 1)	PNT 1.14
Arachidic (C20:0)	0.37	%	≤ 0.60 (Nota 1)	PNT 1.14
Eicosenoic (C20:1)	0.27	%	≤ 0.50 (Nota 1)	PNT 1.14
Behenic (C22:0)	0.12	%	≤ 0.20 (Nota 1)	PNT 1.14
Erucic (C22:1)	<0.10	%	No aplica	PNT 1.14
Lignoceric (C24:0)	0.05	%	≤ 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	<0.05		≤ 0.2 (Nota 1)	PNT 1.19
2-glyceril Monopalmitate				
2-glyceril monopalmitate	0.5	%	Ver Nota A (Nota 1)	PNT 1.58
Tocopherols/Tocotrienols				
Totals tocopherols	246	mg/kg		PNT 1.18
Alpha-Tocopherol	241	mg/kg		PNT 1.18
Beta-Tocopherol	2	mg/kg		PNT 1.18
Gamma-Tocopherol	3	mg/kg		PNT 1.18
Delta-Tocopherol	<1	mg/kg		PNT 1.18
*Biophenols by HPLC				
* Biophenols by HPLC	430.8	mg/kg (tirosol)		COI/T.20/Doc.29
* Tyrosol	3.8	mg/kg		COI/T.20/Doc.29



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Issue date: 09/03/2026

Sample for Testing: Olive Oils

ANALYSIS RESULTS

DETERMINATION	RESULT	UNIT	LÍMIT	PROCEDURE
* Hydroxytyrosol	5.6	mg/kg (tirosol)		COI/T.20/Doc.29
* Oleacein	175.9	mg/kg (tirosol)		COI/T.20/Doc.29
* Oleocanthal	41.7	mg/kg (tirosol)		COI/T.20/Doc.29
Rancimat Stability				
Rancimat stability at 120°C	17.7	horas		PNT 1.84
*Relative Density				
* Relative density (20°C/ water at 20°C)	0.9150	Sin unidad	0.910 -0.916 (Nota 2)	PNT 1.55
# The values of indicated limits are for the category: Extra Virgin Olive Oil				

Comments:

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

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



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Final date of Analysis: 06/03/2026

Issue date: 09/03/2026

Sample for Testing: Olive Oils

ANALYSIS RESULTS

<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

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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Certificate of Analysis (1): 60317165817 / M3/I

Laboratory reference: 1/21.510

Date of receipt: 02/03/2026

Final date of Analysis: 17/03/2026

Issue date: 17/03/2026

Sample for Testing: Olive Oils

Packing: 2 BOTES PET OPACOS 500ml TAPÓN PRECINTO NEGRO

Quantity: 1L

DATA PROVIDED BY CLIENT (2)

#Sample reference: MOUMNANI EXTRA VIRGIN OLIVE OIL

ANALYSIS RESULTS

DETERMINATION	RESULT	PROCEDURE
Organoleptic assessment		
Median of fruity	4.1	COI/T.20/Doc n° 15
Median of defect	0.0	COI/T.20/Doc n° 15
Organoleptic Classification	VIRGEN EXTRA	COI/T.20/Doc.N°15.Rev11. Clasf Reg 2022/2104

Vº Bº Jefe de Panel

Ana M.ª Camacho
Jefe de Panel

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