

CERTIFICATE OF ANALYSIS

COSTUMER:

OLIVE JARDIN MARKETING

No.1159, TAMAN MUTTAQIN, JALAN DATO LUNDANG

**15200 KOTA BHARU
KELANTAN**

Certificate of Analysis (1): 60126134216 / M1/I

Laboratory reference: 1/14.725

Date of receipt: 16/01/2026

Final date of Analysis: 22/01/2026

Issue date: 26/01/2026

Sample for Testing: Olive Oils

Packing: 2 BOTES PET OPACO 500 ml TAPÓN PRECINTO NEGRO

Quantity: 1 L

DATA PROVIDED BY CLIENT (2)

#Sample reference: OLIVE JARDIN OLIVE OIL. PRODUCCION DATE: 26/12/2025

ANALYSIS RESULTS

DETERMINATION	RESULT	UNIT	LÍMIT	PROCEDURE
Acidity				
Acidity	0.11	% (ac.oleic.)	≤ 0.8 (Nota 1)	PNT 1.08
Peroxide index				
Peroxide index	4.7	meq O2/kg	≤ 20 (Nota 1)	PNT 1.09
Spectrophotometric analysis				
K 270	0.13	-	≤ 0.22 (Nota 1)	PNT 1.10
K 232	1.61	-	≤ 2.50 (Nota 1)	PNT 1.10
ΔK	<0.01	-	≤ 0.01 (Nota 1)	PNT 1.10
Moisture				
Moisture and volatile matter	0.06	%	≤ 0.2 (Nota 2)	PNT 1.11
Insoluble impurities				
Impurities (Petroleum ether)	<0.05	%	≤ 0.10 (Nota 2)	PNT 1.12
Iodine index				
Iodine Index (Met. Wijs)	84	g iodo / 100 g	75 - 94 (Nota 2)	PNT 1.72
Saponification value				
Saponification value	190	mg KOH/g aceite	184- 196 (Nota 2)	PNT 1.73
Refraction Index				

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Nuestras políticas



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DETERMINATION	RESULT	UNIT	LÍMIT	PROCEDURE
Refraction Index (line D at 20°C)	1.4692	-	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				
C40 + C42 + C44 + C46	49	mg/kg	No aplica (Nota 1)	PNT 1.20
C42 + C44 + C46	24	mg/kg	≤ 150 (Nota 1)	PNT 1.20
Total sterols and composition				
Total sterols	1894	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	0.5	%	< Camp (Nota 1)	PNT 1.29
β-sitosterol (apparent)	95.4	%	≥ 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	1.3	%	≤ 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)	0.02	%	≤ 0.03 (Nota 1)	PNT 1.14
Palmitic (C16:0)	10.30	%	7.00 -20.00 (Nota 1)	PNT 1.14
Palmitoleic (C16:1)	0.73	%	0.30 -3.50 (Nota 1)	PNT 1.14

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DETERMINATION	RESULT	UNIT	LÍMIT	PROCEDURE
Margaric (C17:0)	0.05	%	≤ 0.40 (Nota 1)	PNT 1.14
Margaroleic (C17:1)	0.09	%	≤ 0.60 (Nota 1)	PNT 1.14
Stearic (C18:0)	2.43	%	0.50 -5.00 (Nota 1)	PNT 1.14
Oleic (C18:1)	76.30	%	55.00 -85.00 (Nota 1)	PNT 1.14
Linoleic (C18:2)	8.41	%	2.50 -21.00 (Nota 1)	PNT 1.14
Linolenic (C18:3)	0.90	%	≤ 1.00 (Nota 1)	PNT 1.14
Arachidic (C20:0)	0.34	%	≤ 0.60 (Nota 1)	PNT 1.14
Eicosenoic (C20:1)	0.32	%	≤ 0.50 (Nota 1)	PNT 1.14
Behenic (C22:0)	0.08	%	≤ 0.20 (Nota 1)	PNT 1.14
Erucic (C22:1)	<0.10	%	No aplica	PNT 1.14
Lignoceric (C24:0)	0.04	%	≤ 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	204	mg/kg		PNT 1.18
Alpha-Tocopherol	198	mg/kg		PNT 1.18
Beta-Tocopherol	2	mg/kg		PNT 1.18
Gamma-Tocopherol	4	mg/kg		PNT 1.18



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Sample for Testing: Olive Oils

ANALYSIS RESULTS

DETERMINATION	RESULT	UNIT	LÍMIT	PROCEDURE
Delta-Tocopherol	<1	mg/kg		PNT 1.18
*Biophenols by HPLC				
* Biophenols by HPLC	310.7	mg/kg (tirosol)		COI/T.20/Doc.29
* Tyrosol	3.9	mg/kg		COI/T.20/Doc.29
* Hydroxytyrosol	<1.0	mg/kg (tirosol)		COI/T.20/Doc.29
* Oleacein	49.3	mg/kg (tirosol)		COI/T.20/Doc.29
* Oleocanthal	45.1	mg/kg (tirosol)		COI/T.20/Doc.29
*Hydroxy Pentaacyclic Triterpene Acids (HPT)				
* Oleanolic acid	27.7	mg/kg		GC-FID
* Ursolic acid	2.5	mg/kg		GC-FID
* Maslinic acid	36.6	mg/kg		GC-FID
Rancimat Stability				
Rancimat stability at 120°C	11.6	horas		PNT 1.84
*Relative Density				
* Relative density (20°C/ water at 20°C)	0.9152	Sin unidad	0.910 -0.916 (Nota 2)	PNT 1.55
*Chlorophyll content				
* Chlorophyll content	29.2	mg/kg		AOCS Cc 13i-96

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: 22/01/2026

Issue date: 26/01/2026

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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**15200 KOTA BHARU
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Certificate of Analysis (1): 60130170547 / M3/I

Laboratory reference: 1/14.725

Date of receipt: 16/01/2026

Final date of Analysis: 30/01/2026

Issue date: 30/01/2026

Sample for Testing: Olive Oils

Packing: 2 BOTES PET OPACO 500 ml TAPÓN PRECINTO NEGRO

Quantity: 1 L

DATA PROVIDED BY CLIENT (2)

#Sample reference: OLIVE JARDIN OLIVE OIL. PRODUCCION DATE: 26/12/2025

ANALYSIS RESULTS

DETERMINATION	RESULT	PROCEDURE
Organoleptic assessment		
Median of fruity		4.9 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

P.O. (Jefe de Panel)



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