



LABORATORIO DE ENSAYO FÍSICO-QUÍMICOS  
RECONOCIDO POR EL COI PARA EL PERÍODO  
1 de DICIEMBRE de 2022 al 30 de NOVIEMBRE de 2023



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

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

**COSTUMER:**

**OLEA TRADING**

**RUE TÉTOUAN**

**10020 RABAT**

**RABAT**

### CERTIFICATE OF ANALYSIS

**Certificate of Analysis (1):** 30220123549 / M1/I

**Laboratory reference:** 1/11.593

**Date of receipt:** 08/02/2023

**Final date of Analysis:** 13/02/2023

**Issue date:** 20/02/2023

**Sample for Testing:** Olive Oils

### DATA PROVIDED BY CLIENT (2)

**Sample reference:** BTI-PRESTIGE

**Packing:** BOTE PET OPACO 500 ml TAPÓN PRECINTO VERDE

**Quantity:** 500 ml

### ANALYSIS RESULTS

<u>DETERMINATION</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LÍMIT</u>	<u>PROCEDURE</u>
<b>Acidity</b>				
Acidity	0.15	% (ac.oleic.)	≤ 0.8 (Nota 1)	PNT 1.08
<b>Peroxide index</b>				
Peroxide index	4.6	meq O2/kg	≤ 20 (Nota 1)	PNT 1.09
<b>Spectrophotometric analysis</b>				
K 270	0.19	-	≤ 0.22 (Nota 1)	PNT 1.10
K 232	2.11	-	≤ 2.50 (Nota 1)	PNT 1.10
ΔK	0.005	-	≤ 0.01 (Nota 1)	PNT 1.10
<b>Moisture</b>				
Moisture and volatile matter	0.05	%	≤ 0.2 (Nota 2)	PNT 1.11
<b>Insoluble impurities</b>				
Impurities (Petroleum ether)	<0.05	%	≤ 0.10 (Nota 2)	PNT 1.12
<b>Ethyl Ester</b>				
Ethyl ester	<10	mg/kg	Max 35 (Nota 1)	PNT 1.20
<b>Content of waxes</b>				
C40 + C42 + C44 + C46	52	mg/kg	No aplica (Nota 1)	PNT 1.20
C42 + C44 + C46	26	mg/kg	≤ 150 (Nota 1)	PNT 1.20
<b>Total sterols and composition</b>				
Total sterols	1980	mg/kg	≥ 1000 (Nota 1)	PNT 1.29
Cholesterol	<0.1	%	≤ 0.5 (Nota 1)	PNT 1.29

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Final date of Analysis: 13/02/2023

Issue date: 20/02/2023

Sample for Testing: Olive Oils

### ANALYSIS RESULTS

DETERMINATION	RESULT	UNIT	LÍMIT	PROCEDURE
Brassicasterol	<0.1	%	≤ 0.1 (Nota 1)	PNT 1.29
Campesterol	3.6	%	≤ 4.0 (Nota 1)	PNT 1.29
Stigmasterol	0.6	%	< Camp (Nota 1)	PNT 1.29
β-sitosterol (apparent)	94.9	%	≥ 93.0 (Nota 1)	PNT 1.29
Δ-7-Stigmastenol	0.2	%	≤ 0.5 (Nota 1)	PNT 1.29
<b>Erythrodiol and Uvaol</b>				
Erythrodiol and uvaol	1.4	%	≤ 4.5 (Nota 1)	PNT 1.29
<b>Fatty acid Content</b>				
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)	13.15	%	7.00 -20.00 (Nota 1)	PNT 1.14
Palmitoleic (C16:1)	0.94	%	0.30 -3.50 (Nota 1)	PNT 1.14
Margaric (C17:0)	0.05	%	≤ 0.40 (Nota 1)	PNT 1.14
Margaroleic (C17:1)	0.07	%	≤ 0.60 (Nota 1)	PNT 1.14
Stearic (C18:0)	2.56	%	0.50 -5.00 (Nota 1)	PNT 1.14
Oleic (C18:1)	69.94	%	55.00 -85.00 (Nota 1)	PNT 1.14
Linoleic (C18:2)	11.28	%	2.50 -21.00 (Nota 1)	PNT 1.14
Linolenic (C18:3)	1.09	%	≤ 1.00 (Nota 1)	PNT 1.14
Arachidic (C20:0)	0.43	%	≤ 0.60 (Nota 1)	PNT 1.14
Eicosenoic (C20:1)	0.29	%	≤ 0.50 (Nota 1)	PNT 1.14
Behenic (C22:0)	0.11	%	≤ 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
<b>Sum of trans Isomers</b>				
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

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**COSTUMER:**  
**OLEA TRADING**  
**RUE TÉTOUAN**  
**10020 RABAT**  
**RABAT**

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**Date of receipt:** 08/02/2023 **Final date of Analysis:** 13/02/2023 **Issue date:** 20/02/2023  
**Sample for Testing:** Olive Oils

### ANALYSIS RESULTS

<u>DETERMINATION</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LÍMIT</u>	<u>PROCEDURE</u>
<b>Difference: ECN42 (HPLC) and ECN42 theor</b>				
<b>Difference ECN42</b>	0.13		≤ 0.2 (Nota 1)	PNT 1.19
<b>2-glyceril Monopalmitate</b>				
<b>2-glyceril monopalmitate</b>	0.7	%	Ver Nota A (Nota 1)	PNT 1.58
<b>*Total Polyphenols</b>				
* <b>Polyphenols (Cafeic)</b>	732	mg Ac.cafeico/kg		PNT 1.56 (Folin -Ciocalteu)

**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.

# **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 A: Max 0.9 (if Ac.Palmitic < 14 %) Max 1.0 (if Ac.P >14%)  
# Note 2: Limits indicated in Codex Stan 33-1981. Last revision.  
# The Linolenic value complies with the Implementing Regulation (EU) 2022/2104  
\*β-sitosterol (aparente)/Campesterol: 26.4

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**Sample for Testing:** Olive Oils

**ANALYSIS RESULTS**

<u>DETERMINATION</u>	<u>RESULT</u>	<u>UNIT</u>	<u>LÍMIT</u>	<u>PROCEDURE</u>
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Vº Bº Jefe de Laboratorio



Fdo: Mª Luisa Cuenca de los Cobos

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**OLEA TRADING**

**RUE TÉTOUAN**

**10020 RABAT**

**RABAT**

**CERTIFICATE OF ANALYSIS**

Certificate of Analysis (1): **30217180307 / M3/I**

Laboratory reference: **1/11.593**

Date of receipt: **08/02/2023**

Final date of Analysis: **17/02/2023**

Issue date: **17/02/2023**

Sample for Testing: **Olive Oils**

**DATA PROVIDED BY CLIENT (2)**

Sample reference: **BTI-PRESTIGE**

Packing: **BOTE PET OPACO 500 ml TAPÓN PRECINTO VERDE**

Quantity: **500 ml**

**ANALYSIS RESULTS**

<b>DETERMINATION</b>	<b>RESULT</b>	<b>PROCEDURE</b>
<b>Organoleptic assessment</b>		
<b>Median of fruity</b>	<b>6.1</b>	COI/T.20/Doc nº 15
<b>Median of defect</b>	<b>0.0</b>	COI/T.20/Doc nº 15
<b>Organoleptic Classification</b>	<b>VIRGEN EXTRA</b>	COI/T.20/Doc nº 15

Vº Bº Jefe de Panel



Ana M.ª Camacho  
Jefe de Panel

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