

CERTIFICATE OF ANALYSIS

COSTUMER:

OLEA TRADING

RUE TÉTOUAN

10020 RABAT

RABAT

Certificate of Analysis (1): 50203131452 / M5/I

Laboratory reference: 1/15.936

Date of receipt: 29/01/2025

Final date of Analysis: 03/02/2025

Issue date: 03/02/2025

Sample for Testing: Olive Oils

Packing: BOTE PET OPACO 250 ml TAPÓN PRECINTO VERDE

Quantity: 250 ml

DATA PROVIDED BY CLIENT (2)

#Sample reference: PRESTIGE*

ANALYSIS RESULTS

| Determination | Result | Unit | Limits | Procedure |
|--------------------------------------|-----------------|---------------|--------------------|------------------|
| Acidity | | | | |
| Acidity | 0.20 | % (ac.oleic.) | ≤ 0.8 (Nota 1) | PNT 1.08 |
| Peroxide index | | | | |
| Peroxide index | 3.4 | meq O2/kg | ≤ 20 (Nota 1) | PNT 1.09 |
| Spectrophotometric analysis | | | | |
| K 270 | 0.15 | - | ≤ 0.22 (Nota 1) | PNT 1.10 |
| K 232 | 1.82 | - | ≤ 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 |
| Ethyl Ester | | | | |
| Ethyl ester | <10 | mg/kg | Max 35 (Nota 1) | PNT 1.20 |
| Content of waxes | | | | |
| C40 + C42 + C44 + C46 | 80 | mg/kg | No aplica (Nota 1) | PNT 1.20 |
| C42 + C44 + C46 | 30 | mg/kg | ≤ 150 (Nota 1) | PNT 1.20 |
| Total sterols and composition | | | | |
| Total sterols | 2110 | 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 | 3.2 | % | ≤ 4.0 (Nota 1) | PNT 1.29 |
| Stigmasterol | 0.5 | % | < Camp (Nota 1) | PNT 1.29 |
| β-sitosterol (apparent) | 95.5 | % | ≥ 93.0 (Nota 1) | PNT 1.29 |
| Δ-7-Stigmastenol | 0.1 | % | ≤ 0.5 (Nota 1) | PNT 1.29 |



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| Determination | Result | Unit | Limits | Procedure |
|---|---------------|-------------|-----------------------|------------------|
| Erythrodiol and Uvaol | | | | |
| Erythrodiol and uvaol | 1.6 | % | ≤ 4.5 (Nota 1) | PNT 1.29 |
| Stigmastadienes | | | | |
| Stigmastadiene | <0.02 | mg/kg | ≤ 0.05 (Nota 1) | PNT 1.16 |
| Aliphatic alcohols | | | | |
| Aliphatic alcohols | 96 | mg/kg | | PNT 1.29 |
| 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) | 11.11 | % | 7.00 -20.00 (Nota 1) | PNT 1.14 |
| Palmitoleic (C16:1) | 0.92 | % | 0.30 -3.50 (Nota 1) | PNT 1.14 |
| Margaric (C17:0) | 0.05 | % | ≤ 0.40 (Nota 1) | PNT 1.14 |
| Margaroleic (C17:1) | 0.08 | % | ≤ 0.60 (Nota 1) | PNT 1.14 |
| Stearic (C18:0) | 2.45 | % | 0.50 -5.00 (Nota 1) | PNT 1.14 |
| Oleic (C18:1) | 71.69 | % | 55.00 -85.00 (Nota 1) | PNT 1.14 |
| Linoleic (C18:2) | 11.88 | % | 2.50 -21.00 (Nota 1) | PNT 1.14 |
| Linolenic (C18:3) | 0.99 | % | ≤ 1.00 (Nota 1) | PNT 1.14 |
| Arachidic (C20:0) | 0.35 | % | ≤ 0.60 (Nota 1) | PNT 1.14 |
| Eicosenoic (C20:1) | 0.32 | % | ≤ 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) | 0.04 | % | ≤ 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 |
| *Squalene | | | | |
| * Squalene | 2568 | mg/kg | | Método del I.G. |



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Date of receipt: 29/01/2025

Final date of Analysis: 03/02/2025

Issue date: 03/02/2025

Sample for Testing: Olive Oils

ANALYSIS RESULTS

| Determination | Result | Unit | Limits | Procedure |
|---------------------------------------|----------------|------------------|-----------------|-----------------------------|
| *Unsaponifiable fraction | | | | |
| * Unsaponifiable matter | 9.09 | g/kg | Max 15 (Nota 2) | PNT 1.67 (Según ISO 3596) |
| Tocopherols/Tocotrienols | | | | |
| Totals tocopherols | 193 | mg/kg | | PNT 1.18 |
| Alpha-Tocopherol | 189 | 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 | 476.9 | mg/kg (tirosol) | | COI/T.20/Doc.29 |
| * Tyrosol | 3.4 | mg/kg | | COI/T.20/Doc.29 |
| * Hydroxytyrosol | <1.0 | mg/kg (tirosol) | | COI/T.20/Doc.29 |
| * Oleacein | 111.2 | mg/kg (tirosol) | | COI/T.20/Doc.29 |
| * Oleocanthal | 5.1 | mg/kg (tirosol) | | COI/T.20/Doc.29 |
| *Total Polyphenols | | | | |
| * Polyphenols (Cafeic) | 643 | 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 | 2.4±0.5 | mg/kg | | PNT 1.40(HPLC-GC-FID) |
| * MOSH/POSH C25-C35 | 7.2±1.5 | mg/kg | | PNT 1.40(HPLC-GC-FID) |
| * MOSH/POSH C35-C40 | 1.5±0.3 | mg/kg | | PNT 1.40(HPLC-GC-FID) |
| * MOSH/POSH C40-C50 | 1.2±0.2 | mg/kg | | PNT 1.40(HPLC-GC-FID) |
| * MOSH/POSH C10-C50 | 13±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 | 1.0±0.3 | mg/kg | | PNT 1.40(HPLC-GC-FID) |
| * MOAH C35-C50 | <0.5 | mg/kg | | PNT 1.40(HPLC-GC-FID) |
| * MOAH C10-C50 | 1.5±0.5 | 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) |



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Laboratory reference: 1/15.936

Date of receipt: 29/01/2025

Final date of Analysis: 03/02/2025

Issue date: 03/02/2025

Sample for Testing: Olive Oils

ANALYSIS RESULTS

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

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(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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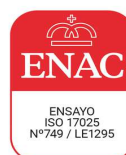
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COSTUMER:

OLEA TRADING

RUE TÉTOUAN

10020 RABAT

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Certificate of Analysis (1): 41210161939 / M3/I

Laboratory reference: 1/5.634

Date of receipt: 26/11/2024

Final date of Analysis: 10/12/2024

Issue date: 10/12/2024

Sample for Testing: Olive Oils

Packing: BOTE PET OPACO 500 ml TAPÓN PRECINTO VERDE

Quantity: 500ml

DATA PROVIDED BY CLIENT (2)

#Sample reference: PRESTIGE.

ANALYSIS RESULTS

| DETERMINATION | RESULT | PROCEDURE |
|------------------------------------|---------------------|---|
| Organoleptic assessment | | |
| Median of fruity | 6.6 | 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. Clasf Reg 2022/2104 |

Vº Bº Jefe de Panel

Ana M.ª Camacho
Jefe de Panel

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