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**Athens:** **16/11/2026**

**Cert. Num:** **C2627-70219**

# CERTIFICATE OF ANALYSIS

**Brand Name:** TROPICUAL DE SIERRA - 127144001
**Owner:** Tropicual Mangrove SL
**Variety:** PICUAL
**Origin:** Hinojares, Espana
**Harvesting Period:** October 2026
**Oil Mill:** Oleicola San Francisco

**Analysis Date:** 20/10/2026

**Production Date:** 13/10/2026

## Chemical Analysis

| | | |
|---|---|---|
| Oleocanthal | 74 | mg/Kg |
| Oleacein | 69 | mg/Kg |
| Oleocanthal+Oleacein (index D1) | 143 | mg/Kg |
| Ligstroside aglycon (monoaldehyde form) | 44 | mg/Kg |
| Oleuropein aglycon (monoaldehyde form) | 70 | mg/Kg |
| Ligstroside aglycon (dialdehyde form)* | 365 | mg/Kg |
| Oleuropein aglycon (dialdehyde form)** | 382 | mg/Kg |
| Free Tyrosol | <5 | mg/Kg |
| Total tyrosol derivatives | 483 | mg/Kg |
| Total hydroxytyrosol derivatives | 521 | mg/Kg |
| Total polyphenols analyzed | 1,004 | mg/Kg |

**Comments:**

The daily consumption of 20 g of the analyzed olive oil provides 20,09mg of hydroxytyrosol, tyrosol or their derivatives.
Olive oils that contain >5 mg per 20 gr belong to the category of oils that protect the blood lipids from oxidative stress according to the Regulation 432/2012 of the European Union.
It should be noted that oleocanthal and oleacein present important biological activity and they have been related with anti-inflammatory, antioxidant, cardioprotective and neuroprotective activity.
The chemical analysis was performed at the National and Kapodistrian University of Athens according to the method that has been submitted to EFET and published in J. Agric. Food Chem. 2012, 60, 11696, J. Agric. Food Chem. 2014, 62, 600 & Molecules 2020, 25, 2449.
The results relate to the analyzed sample.
*Ligstrodial+Oleokoronal **Oleomissional+Oleuropeindial

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