

**World Olive Center for Health**

76 Imittou St. 5th floor  
11634, Pagkrati, Athens  
Tel: 2107525134  
info@worldolivecenter.com

**Athens:** 25/11/2025**Cert. Num:** C2526-00363**CERTIFICATE OF ANALYSIS**

**Brand Name:** PAMAKO ORGANIC BLEND  
**Owner:** ANDROULAKIS EFTYCHIOS IOANNIS  
**Variety:**  
**Origin:**  
**Harvesting Period:** NOVEMBER 2025  
**Oil Mill:**

**Analysis Date:** 21/11/2025**Production Date:****Chemical Analysis**

Oleocanthal	758	mg/Kg
Oleacein	187	mg/Kg
Oleocanthal+Oleacein (index D1)	945	mg/Kg
Ligstroside aglycon (monoaldehyde form)	88	mg/Kg
Oleuropein aglycon (monoaldehyde form)	104	mg/Kg
Ligstroside aglycon (dialdehyde form)*	200	mg/Kg
Oleuropein aglycon (dialdehyde form)**	119	mg/Kg
Free Tyrosol	10	mg/Kg
Total tyrosol derivatives	1,056	mg/Kg
Total hydroxytyrosol derivatives	410	mg/Kg
Total polyphenols analyzed	1,466	mg/Kg

**Comments:**

The levels of oleocanthal and oleacein are higher than the average values (135 and 105 mg/Kg respectively) of the samples included in the international study performed at the University of California, Davis.

The daily consumption of 20 g of the analyzed olive oil provides 29,33mg 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.

\*Ligstrodiol+Oleokoronol \*\*Oleomissional+Oleuropeindiol

**Magiatis Prokopios**

**PROKOPIOS MAGIATIS**  
ASSOCIATE PROFESSOR  
UNIVERSITY OF ATHENS  
FACULTY OF PHARMACY  
DEPARTMENT OF PHARMACOGNOSY  
AND NATURAL PRODUCTS CHEMISTRY