



World Olive Center for Health

76 Imittou St. 5th floor 11634, Pagkrati, Athens Tel: 2107010131

info@worldolivecenter.com

Athens:

30/11/2021

Cert. Num:

Analysis Date:

Production Date:

C2122-00412

26/11/2021

10/10/2021

CERTIFICATE OF ANALYSIS

Brand Name: PAMAKO MONOVARIETAL

Owner: ANDROULAKIS EFTYCHIOS

Variety: TSOUNATI

Origin: AGRILES CHANIA CRETE GREECE

Harvesting Period: October 2021

Oil Press: ANDROULAKIS EFTYCHIOS

Chemical Analysis

| Oleocanthal | 478 | mg/Kg |
|---|-------|-------|
| Oleacein | 272 | mg/Kg |
| Oleocanthal+Oleacein (index D1) | 750 | mg/Kg |
| Ligstroside aglycon (monoaldehyde form) | 270 | mg/Kg |
| Oleuropein aglycon (monoaldehyde form) | 292 | mg/Kg |
| Ligstroside aglycon (dialdehyde form)* | 647 | mg/Kg |
| Oleuropein aglycon (dialdehyde form)** | 121 | mg/Kg |
| Free Tyrosol | 10 | mg/Kg |
| Total tyrosol derivatives | 1.404 | mg/Kg |
| Totalhydroxytyrosol derivatives FOR HEALT | 686 | mg/Kg |
| Total polyphenols analyzed | 2.090 | mg/Kg |
| | | |

Comments:

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

The daily consumption of 20 g of the analyzed olive oil provides 41,8mg 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 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, 600-607 & Molecules, 2020, 25, 2449. *Oleomissional+Oleuropeindial **Ligstrodial+Oleokoronal

Magiatis Prokopios

PROKOPIOS MAGIATIS

ASSOCIATE PROFESSOR

UNIVERSIDADE ATHENS
FACULT PRARMACY
DEPARTMENT OF PHARMACY
AND NATURAL POINT OF STREET PROFESSOR

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