



World Olive Center for Health

76 Imittou St. 5th floor
11634, Pagkrati, Athens
Tel: 2107010131
info@worldolivecenter.com



Athens: 28/11/2023

Cert. Num: C2324-00263

CERTIFICATE OF ANALYSIS

Brand Name: PAMAKO MONOVARIENTAL

Owner: ANDROULAKIS EFTICHIOS

Variety:

Origin:

Harvesting Period:

Oil Mill:

Analysis Date: 24/11/2023

Production Date:

Chemical Analysis

Oleocanthal	511	mg/Kg
Oleacein	353	mg/Kg
Oleocanthal+Oleacein (index D1)	863	mg/Kg
Ligstroside aglycon (monoaldehyde form)	160	mg/Kg
Oleuropein aglycon (monoaldehyde form)	199	mg/Kg
Ligstroside aglycon (dialdehyde form)*	514	mg/Kg
Oleuropein aglycon (dialdehyde form)**	282	mg/Kg
Free Tyrosol	20	mg/Kg
Total tyrosol derivatives	1.205	mg/Kg
Total hydroxytyrosol derivatives	834	mg/Kg
Total polyphenols analyzed	2.039	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 40,78mg 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.

*Oleomissional+Oleuropeindial **Ligstrodiol+Oleokoronol

Magiatis Prokopios

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