



World Olive Center for Health

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

Athens 15/12/2021
Cert. Num: C2122-00502

CERTIFICATE OF ANALYSIS

Brand Name: PLATIVOLIA vasilaki olive grove 1
Owner: VASSILAKS EVAGGELOS
Variety: KORONEIKI
Origin: PLATIVOLIA PISKOKEFALO LASITHI CRETE GREECE
Harvesting Period: October - November 2021
Oil Press:

Analysis Date: 15/12/2021

Production Date:

Chemical Analysis

Acidity: 0,28(<0,8)	
Peroxides: 8,20 meqO2/Kg (<20)	
K232: 1,754 (<2,5), K270: 0,140 (<0,22), ΔK: -0,0010	
Oleocanthal	214 mg/Kg
Oleacein	136 mg/Kg
Oleocanthal+Oleacein (index D1)	350 mg/Kg
Ligstroside aglycon (monoaldehyde form)	18 mg/Kg
Oleuropein aglycon (monoaldehyde form)	26 mg/Kg
Ligstroside aglycon (dialdehyde form)*	60 mg/Kg
Oleuropein aglycon (dialdehyde form)**	44 mg/Kg
Free Tyrosol	<5 mg/Kg
Total tyrosol derivatives	293 mg/Kg
Total hydroxytyrosol derivatives	206 mg/Kg
Total polyphenols analyzed	498 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 9,96mg 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, 600-607 & Molecules, 2020, 25, 2449. *Oleomissional+Oleuropeindial **Ligstrodial+Oleokoronal

Magiatis Prokopios

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