

**World Olive Center for Health**

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

Athens: 31/01/2023**Cert. Num: C2223-00678****CERTIFICATE OF ANALYSIS**

Brand Name: BLACK
Owner: ZACHARAKI VASSILIKI
Variety: AGRIELIA
Origin: LYGOURIO ARGOLIS GREECE
Harvesting Period:
Oil Mill:

Analysis Date: 27/01/2023**Production Date:****Chemical Analysis**

Acidity: 0,30(<0,8)	
Peroxides: 6,80 meqO2/Kg (<20)	
K232: 1,976 (<2,5), K270: 0,165 (<0,22), ΔK: -0,0050	
Oleocanthal	173 mg/Kg
Oleacein	120 mg/Kg
Oleocanthal+Oleacein (index D1)	293 mg/Kg
Ligstroside aglycon (monoaldehyde form)	42 mg/Kg
Oleuropein aglycon (monoaldehyde form)	65 mg/Kg
Ligstroside aglycon (dialdehyde form)*	365 mg/Kg
Oleuropein aglycon (dialdehyde form)**	236 mg/Kg
Free Tyrosol	<5 mg/Kg
Total tyrosol derivatives	580 mg/Kg
Total hydroxytyrosol derivatives	422 mg/Kg
Total polyphenols analyzed	1.001 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 20,02mg 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