



World Olive Center for Health

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Athens: 13/11/2023

Cert. Num: C2324-00171

CERTIFICATE OF ANALYSIS

Brand Name: PhenOLIV Organic

Owner: THE GREEK OLIVE ESTATE CTO

Variety: OLYMPIA

Origin: ARKADIA GREECE

Harvesting Period: October 2023

Oil Mill:

Analysis Date: 09/10/2023

Production Date:

Chemical Analysis

Oleocanthal	483	mg/Kg
Oleacein	330	mg/Kg
Oleocanthal+Oleacein (index D1)	813	mg/Kg
Ligstroside aglycon (monoaldehyde form)	144	mg/Kg
Oleuropein aglycon (monoaldehyde form)	180	mg/Kg
Ligstroside aglycon (dialdehyde form)*	563	mg/Kg
Oleuropein aglycon (dialdehyde form)**	392	mg/Kg
Free Tyrosol	18	mg/Kg
Total tyrosol derivatives	1.208	mg/Kg
Total hydroxytyrosol derivatives	902	mg/Kg
Total polyphenols analyzed	2.110	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 42,2mg 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

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