



World Olive Center for Health

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Athens: 05/12/2024

Cert. Num: C2425-00398

CERTIFICATE OF ANALYSIS

Brand Name: PhenOLIV Organic
Owner: THE GREEK OLIVE ESTATE CTO
Variety: OLYMPIA
Origin: ARKADIA GREECE
Harvesting Period: 2024
Oil Mill:

Analysis Date: 23/10/2024

Production Date:

Chemical Analysis

Oleocanthal	231	mg/Kg
Oleacein	414	mg/Kg
Oleocanthal+Oleacein (index D1)	645	mg/Kg
Ligstroside aglycon (monoaldehyde form)	156	mg/Kg
Oleuropein aglycon (monoaldehyde form)	543	mg/Kg
Ligstroside aglycon (dialdehyde form)*	325	mg/Kg
Oleuropein aglycon (dialdehyde form)**	360	mg/Kg
Free Tyrosol	26	mg/Kg
Total tyrosol derivatives	737	mg/Kg
Total hydroxytyrosol derivatives	1.317	mg/Kg
Total polyphenols analyzed	2.054	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 41,09mg 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+Oleokoronal

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