



C2122-00347

World Olive Center for Health

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Athens: 30/11/2021
Cert. Num: C2122-00347

CERTIFICATE OF ANALYSIS

Brand Name: PhenOLIV Organic
Owner: THE GREEK OLIVE ESTATE
Variety: OLYMPIA
Origin: ARKADIA ELLADA
Harvesting Period: October 2021
Oil Press:

Analysis Date: 23/11/2021

Production Date:

Chemical Analysis

Oleocanthal	479	mg/Kg
Oleacein	303	mg/Kg
Oleocanthal+Oleacein (index D1)	783	mg/Kg
Ligstroside aglycon (monoaldehyde form)	263	mg/Kg
Oleuropein aglycon (monoaldehyde form)	309	mg/Kg
Ligstroside aglycon (dialdehyde form)*	609	mg/Kg
Oleuropein aglycon (dialdehyde form)**	160	mg/Kg
Free Tyrosol	<5	mg/Kg
Total tyrosol derivatives	1.362	mg/Kg
Totalhydroxytyrosol derivatives	772	mg/Kg
Total polyphenols analyzed	2.124	mg/Kg

Comments:

The levels of oleocanthal and oleacein are higher than the average values (135 and 105 mg/Kg respectively) of the sample included in the international study performed at the University of California, Davis.

The daily consumption of 20 g of the analyzed olive oil provides 42,48mg 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 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+Oleokoronol

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