

**World Olive Center for Health**

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Athens: 16/02/2024**Cert. Num: C2324-00490****CERTIFICATE OF ANALYSIS**

Brand Name: Kouros of Zeus
Owner: CHRISTAKOS EFTHYMIOS
Variety: KORONEIKI
Origin: KROKEES LACONIA GREECE
Harvesting Period: 2023-2024
Oil Mill: PREVA

Analysis Date: 14/02/2024**Production Date:****Chemical Analysis**

Acidity: 0,21(<0,8)	
Peroxides: 9,20 meqO2/Kg (<20)	
K232: 1,833 (<2,5), K270: 0,137 (<0,22), ΔK: -0,0070	
Oleocanthal	135 mg/Kg
Oleacein	71 mg/Kg
Oleocanthal+Oleacein (index D1)	206 mg/Kg
Ligstroside aglycon (monoaldehyde form)	32 mg/Kg
Oleuropein aglycon (monoaldehyde form)	44 mg/Kg
Ligstroside aglycon (dialdehyde form)*	137 mg/Kg
Oleuropein aglycon (dialdehyde form)**	78 mg/Kg
Free Tyrosol	23 mg/Kg
Total tyrosol derivatives	327 mg/Kg
Total hydroxytyrosol derivatives	192 mg/Kg
Total polyphenols analyzed	519 mg/Kg

Comments:

The levels of oleocanthal are higher than the average values (135 mg/Kg) 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 10,39mg 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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