



**World Olive Center for Health**

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**Athens:** 27/12/2023

**Cert. Num:** C2324-00374

**CERTIFICATE OF ANALYSIS**

**Brand Name:** FYLLIKON first harvest organic evop  
**Owner:** SAKELLAROPOULOS ORGANIC FARMS  
**Variety:** KORONEIKI  
**Origin:** SPARTI LAKONIA GREECE  
**Harvesting Period:**  
**Oil Mill:**

**Analysis Date:** 08/12/2023

**Production Date:**

**Chemical Analysis**

Oleocanthal	285	mg/Kg
Oleacein	248	mg/Kg
Oleocanthal+Oleacein (index D1)	533	mg/Kg
Ligstroside aglycon (monoaldehyde form)	183	mg/Kg
Oleuropein aglycon (monoaldehyde form)	350	mg/Kg
Ligstroside aglycon (dialdehyde form)*	609	mg/Kg
Oleuropein aglycon (dialdehyde form)**	289	mg/Kg
Free Tyrosol	34	mg/Kg
Total tyrosol derivatives	1.112	mg/Kg
Total hydroxytyrosol derivatives	888	mg/Kg
Total polyphenols analyzed	2.000	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 40,01mg 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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