



### World Olive Center for Health

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Cert. Num: C2122-00677

## CERTIFICATE OF ANALYSIS

**Brand Name:** AGOURELAI0 EARLY HARVEST  
**Owner:** ESTATE SAKELLAROPOULOS  
**Variety:** KORONEIKI  
**Origin:** SPARTI LAKONIA GREECE  
**Harvesting Period:** October 2021  
**Oil Mill:**

**Analysis Date:** 19/01/2022

**Production Date:**

### Chemical Analysis

Oleocanthal	339	mg/Kg
Oleacein	170	mg/Kg
Oleocanthal+Oleacein (index D1)	509	mg/Kg
Ligstroside aglycon (monoaldehyde form)	160	mg/Kg
Oleuropein aglycon (monoaldehyde form)	190	mg/Kg
Ligstroside aglycon (dialdehyde form)*	321	mg/Kg
Oleuropein aglycon (dialdehyde form)**	143	mg/Kg
Free Tyrosol	<5	mg/Kg
Total tyrosol derivatives	820	mg/Kg
Total hydroxytyrosol derivatives	503	mg/Kg
Total polyphenols analyzed	1.323	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 26,46mg 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, 600-607 & Molecules, 2020, 25, 2449. \*Oleomissional+Oleuropeindial \*\*Ligstrodiol+Oleokoronal

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