

## National and Kapodistrian University of Athens

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## **CERTIFICATE OF ANALYSIS**

Brand Name: AGOURELAIO EARLY HARVEST ORGAN Analysis Date: 21/01/2021
Owner: ELAIONES SAKELLAROPOULOS

Origin: SPARTI LAKONIA GREECE

## **Chemical Analysis**

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Oleocanthal	275	mg/Kg
Oleacein	168	mg/Kg
Oleocanthal + Oleacein (index D1)	443	mg/Kg
Ligstroside aglycon (monoaldehyde form)	109	mg/Kg
Oleuropein aglycon (monoaldehyde form)	192	mg/Kg
Ligstroside aglycon (dialdehyde form)	270	mg/Kg
Oleuropein aglycon (dialdehyde form)	151	mg/Kg
Free Tyrosol	<5	mg/Kg
Total tyrosol derivatives	654	mg/Kg
Total hydroxytyrosol derivatives	511	mg/Kg
Total polyphenols analyzed	1.165	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 23.3 mg 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 published in J.Agric. Food Chem., 2012, 60 (47) , pp 11696-11703, J.Agric. Food Chem., 2014 62 (3) , 600-607 and OLIVAE, 2015, 122, 22-33.

\*Oleomissional+Oleuropeindial \*\*Ligstrodial+Oleokoronal

\*Free tyrosol detected. Free tyrosol concentration is 284 mg/kg.

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