



**National and Kapodistrian  
University of Athens**

Faculty of Pharmacy  
Department of Pharmacognosy & Natural Products Chemistry  
Panepistimiopolis Zografou  
15771, Athens  
Tel: +30 210 72 74052  
[magiatis@pharm.uoa.gr](mailto:magiatis@pharm.uoa.gr)



Athens, 10/10/2021  
Cert.Num: 2122-C00089

**CERTIFICATE OF ANALYSIS**

**Brand Name:** ORGANIC EARLY HARVEST  
**Owner:** KASELL SA

**Analysis Date:** 08/10/2021

**Variety:** ATHINOELIA  
**Origin:** SYKEA LAKONIA GREECE

**Harvest Period:** September 2021

**Production Date:** 30/09/2021

**Chemical Analysis**

Oleocanthal	242 mg/Kg
Oleacein	81 mg/Kg
Oleocanthal + Oleacein (index D1)	323 mg/Kg
Ligstroside aglycon (monoaldehyde form)	30 mg/Kg
Oleuropein aglycon (monoaldehyde form)	26 mg/Kg
Ligstroside aglycon (dialdehyde form)	163 mg/Kg
Oleuropein aglycon (dialdehyde form)	53 mg/Kg
Free Tyrosol	<5 mg/Kg
Total tyrosol derivatives	435 mg/Kg
Total hydroxytyrosol derivatives	161 mg/Kg
Total polyphenols analyzed	595 mg/Kg

**Comments :**

The levels of oleocanthal are higher than the average values (135 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 11.9 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) , -607 and OLIVAE, 2015, 122, 22-33.

\*Oleomissional+Oleuropeindial \*\*Ligstrodiol+Oleokoronal

Magiatis Prokopios  
**PROKOPIOS MAGIATIS**  
ASSOCIATE PROFESSOR  
UNIVERSITY OF ATHENS  
FACULTY OF PHARMACY  
DEPARTMENT OF PHARMACOGNOSY  
AND NATURAL PRODUCTS CHEMISTRY