



**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



Athens, 21/12/2018
Cert.Num: 1819-C00507

CERTIFICATE OF ANALYSIS

Brand Name: ARMONIA EXTRA VIRGIN
Owner: SAKELLAROPOULOS ORGANIC FARMS
Variety: KORONEIKI
Origin: SPARTI LAKONIA GREECE

Analysis Date: 20/12/2018

Chemical Analysis

Oleocanthal	124 mg/Kg
Oleacein	55 mg/Kg
Oleocanthal + Oleacein (index D1)	179 mg/Kg
Ligstroside aglycon (monoaldehyde form)	28 mg/Kg
Oleuropein aglycon (monoaldehyde form)	36 mg/Kg
Ligstroside aglycon (dialdehyde form)	74 mg/Kg
Oleuropein aglycon (dialdehyde form)	39 mg/Kg
Total tyrosol derivatives	225 mg/Kg
Total hydroxytyrosol derivatives	130 mg/Kg
Total phenols analyzed	355 mg/Kg

Comments :

The daily consumption of 20 g of the analyzed olive oil provides 7.1 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

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