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Athens, 06/11/2019  
Cert.Num: 1920-C00101

**CERTIFICATE OF ANALYSIS**

**Brand Name:** THALLON  
**Owner:** TSIKOURIS DIMITRIOS  
**Variety:** CHALKIDIKIS  
**Origin:** PSACHOUDIA CHALKIDIKI GREECE

**Analysis Date:** 29/10/2019

**Chemical Analysis**

Oleocanthal	330 mg/Kg
Oleacein	144 mg/Kg
Oleocanthal + Oleacein (index D1)	474 mg/Kg
Ligstroside aglycon (monoaldehyde form)	55 mg/Kg
Oleuropein aglycon (monoaldehyde form)	68 mg/Kg
Ligstroside aglycon (dialdehyde form)	230 mg/Kg
Oleuropein aglycon (dialdehyde form)	100 mg/Kg
Total tyrosol derivatives	615 mg/Kg
Total hydroxytyrosol derivatives	312 mg/Kg
Total polyphenols analyzed	927 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 18.5 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

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