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Athens, 23/12/2019
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CERTIFICATE OF ANALYSIS

Analysis Date: 23/12/2019

Owner: MPOURLOKAS IOANNIS

Variety: KORONEIKI
Origin: LAKONIA GREECE

Harvest Period: December 2019

Production Date: 14/12/2019

Chemical Analysis

Acidity: 0,34 (<0,8)	
Peroxides: 6 meqO ₂ /Kg (<20)	
K232: 1,603 (<2,5), K270: 0,149 (<0,22), ΔK: -0,0050	
Oleocanthal	242 mg/Kg
Oleacein	199 mg/Kg
Oleocanthal + Oleacein (index D1)	441 mg/Kg
Ligstroside aglycon (monoaldehyde form)	28 mg/Kg
Oleuropein aglycon (monoaldehyde form)	39 mg/Kg
Ligstroside aglycon (dialdehyde form)	86 mg/Kg
Oleuropein aglycon (dialdehyde form)	70 mg/Kg
Total tyrosol derivatives	356 mg/Kg
Total hydroxytyrosol derivatives	308 mg/Kg
Total polyphenols analyzed	663 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 13.3 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

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