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Athens, 14/09/2021 Cert.Num: 2122-C00007

CERTIFICATE OF ANALYSIS

Analysis Date: 14/09/2021

ARGALI **Owner:**

Variety: **KORONEIKI**

Origin: GARGALIANOI AGIOS DIMITRIOS MESSINIA GREECE

Harvest Period: September 2021

Chemical Analysis

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Oleocanthal	517	mg/Kg
Oleacein	493	mg/Kg
Oleocanthal + Oleacein (index D1)	1.010	mg/Kg
Ligstroside aglycon (monoaldehyde form)	149	mg/Kg
Oleuropein aglycon (monoaldehyde form)	160	mg/Kg
Ligstroside aglycon (dialdehyde form)	200	mg/Kg
Oleuropein aglycon (dialdehyde form)	160	mg/Kg
Free Tyrosol	<5	mg/Kg
Total tyrosol derivatives	866	mg/Kg
Total hydroxytyrosol derivatives	814	mg/Kg
Total polyphenols analyzed	1.679	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 33.6 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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