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Athens, 01/10/2020
Cert.Num: 2021-C00033

CERTIFICATE OF ANALYSIS

Brand Name: C-20 **Analysis Date:** 30/09/2020
Owner: D. SAKKAS K SIA EE
Variety: AGRIELIA
Origin: DAFNIO MAYROMICHALEÏKA-LYKOVOUNI LAKONIA GREECE
Harvest Period: September 2020 **Production Date:** 29/09/2020

Chemical Analysis

| | | |
|---|-------|-------|
| Oleocanthal | 2.275 | mg/Kg |
| Oleacein | 1.047 | mg/Kg |
| Oleocanthal + Oleacein (index D1) | 3.322 | mg/Kg |
| Ligstroside aglycon (monoaldehyde form) | 195 | mg/Kg |
| Oleuropein aglycon (monoaldehyde form) | 107 | mg/Kg |
| Ligstroside aglycon (dialdehyde form) | 274 | mg/Kg |
| Oleuropein aglycon (dialdehyde form) | 104 | mg/Kg |
| Total tyrosol derivatives | 2.745 | mg/Kg |
| Total hydroxytyrosol derivatives | 1.258 | mg/Kg |
| Total polyphenols analyzed | 4.003 | 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 80.1 mg of hydroxytyrosol, tyrosol or their derivatives (>>5 mg) and consequently the oil belongs 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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