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Athens: 29/01/2024
Cert. Num: C2324-00457

CERTIFICATE OF ANALYSIS

Brand Name: Korona Organic Farming
Owner: PHYSIS OF CRETE- ASMARGIANAKI MARIA
Variety: KORONEIKI
Origin: KRITSA KOUTARANTO LASSITHI GREECE
Harvesting Period: November 2023
Oil Mill:

Analysis Date: 26/01/2024
Production Date: 16/11/2023

Chemical Analysis

Oleocanthal	260	mg/Kg
Oleacein	242	mg/Kg
Oleocanthal+Oleacein (index D1)	502	mg/Kg
Ligstroside aglycon (monoaldehyde form)	69	mg/Kg
Oleuropein aglycon (monoaldehyde form)	117	mg/Kg
Ligstroside aglycon (dialdehyde form)*	204	mg/Kg
Oleuropein aglycon (dialdehyde form)**	175	mg/Kg
Free Tyrosol	<5	mg/Kg
Total tyrosol derivatives	545	mg/Kg
Total hydroxytyrosol derivatives	533	mg/Kg
Total polyphenols analyzed	1.078	mg/Kg

Comments:

The levels of oleocanthal and oleacein are higher than the average values (135 and 105 mg/Kg respectively) of the samples included in the international study performed at the University of California, Davis.
The daily consumption of 20 g of the analyzed olive oil provides 21,56mg 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 at the National and Kapodistrian University of Athens according to the method that has been submitted to EFET and published in J. Agric. Food Chem. 2012, 60, 11696, J. Agric. Food Chem. 2014, 62, 600 & Molecules 2020, 25, 2449.
The results relate to the analyzed sample.
*Oleomissional+Oleuropeindial **Ligstrodiol+Oleokoronal

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