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Athens: **30/12/2024**

Cert. Num: **C2425-00503**

CERTIFICATE OF ANALYSIS

Brand Name: Biolea Organic EVOO Harvest 2024-25
Owner: CHLOE ROLAD DIMITRIADI
Variety: KORONEIKI
Origin: ASTRIKA KOLYMPARI CHANIA
Harvesting Period: 2024-2025
Oil Mill:

Analysis Date: 23/12/2024

Production Date:

Chemical Analysis

Oleocanthal	107	mg/Kg
Oleacein	115	mg/Kg
Oleocanthal+Oleacein (index D1)	222	mg/Kg
Ligstroside aglycon (monoaldehyde form)	93	mg/Kg
Oleuropein aglycon (monoaldehyde form)	158	mg/Kg
Ligstroside aglycon (dialdehyde form)*	526	mg/Kg
Oleuropein aglycon (dialdehyde form)**	326	mg/Kg
Free Tyrosol	22	mg/Kg
Total tyrosol derivatives	747	mg/Kg
Total hydroxytyrosol derivatives	599	mg/Kg
Total polyphenols analyzed	1.346	mg/Kg

Comments:

The levels of oleacein are higher than the average values (105 mg/Kg) 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 26,92mg 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 **Ligstrodial+Oleokoronal

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