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Athens, 07/12/2020 Cert.Num: 2021-C00540

OLIVE



Brand Name: TANK 9 Analysis Date: 04/12/2020

Owner: PAMAKO ANDROULAKIS ETUCHIOS TUPOPOIISI ELAIOLADOU

Variety: TSOUNATI

Origin: AGRILES CHANIA GREECE

**Harvest Period:** November 2020

## **Chemical Analysis**

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Oleocanthal	313	mg/Kg
Oleacein	296	mg/Kg
Oleocanthal + Oleacein (index D1)	609	mg/Kg
Ligstroside aglycon (monoaldehyde form)	260	mg/Kg
Oleuropein aglycon (monoaldehyde form)	443	mg/Kg
5	412	mg/Kg
Oleuropein aglycon (dialdehyde form)	365	mg/Kg
Free Tyrosol	10	mg/Kg
Total tyrosol derivatives	985	mg/Kg
Total hydroxytyrosol derivatives 1.	104	mg/Kg
Total polyphenols analyzed 2.	089	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 41.8 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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