



World Olive Center for Health

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Athens: 29/01/2024

Cert. Num: C2324-00455

CERTIFICATE OF ANALYSIS

Brand Name: Rachi of Mani **Analysis Date:** 26/01/2024
Owner: PETROPOULAKIS NIKOS OLIVE GROVES MESOGEIAKI GI L.P.
Variety: KORONEIKI
Origin: RACHI LACONIA GREECE
Harvesting Period: 15/11/2023 - 4/12/23 **Production Date:** 04/12/2023
Oil Mill: TZINAKOS

Chemical Analysis

Oleocanthal	127	mg/Kg
Oleacein	107	mg/Kg
Oleocanthal+Oleacein (index D1)	233	mg/Kg
Ligstroside aglycon (monoaldehyde form)	28	mg/Kg
Oleuropein aglycon (monoaldehyde form)	48	mg/Kg
Ligstroside aglycon (dialdehyde form)*	130	mg/Kg
Oleuropein aglycon (dialdehyde form)**	95	mg/Kg
Free Tyrosol	<5	mg/Kg
Total tyrosol derivatives	284	mg/Kg
Total hydroxytyrosol derivatives	250	mg/Kg
Total polyphenols analyzed	534	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 10,68mg 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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