

**World Olive Center for Health**

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Athens: 11/01/2023**Cert. Num: C2223-00604****CERTIFICATE OF ANALYSIS**

Brand Name: RACHI OF MANI 2 **Analysis Date:** 03/01/2023
Owner: PETROPOULAKIS NIKOS OLIVE GROVES MESOGIYAKI GI L.P.
Variety: KORONEIKI
Origin: LIMNI LAKONIA GREECE
Harvesting Period: December 2022 **Production Date:**
Oil Mill:

Chemical Analysis

Oleocanthal	166	mg/Kg
Oleacein	96	mg/Kg
Oleocanthal+Oleacein (index D1)	263	mg/Kg
Ligstroside aglycon (monoaldehyde form)	25	mg/Kg
Oleuropein aglycon (monoaldehyde form)	34	mg/Kg
Ligstroside aglycon (dialdehyde form)*	97	mg/Kg
Oleuropein aglycon (dialdehyde form)**	46	mg/Kg
Free Tyrosol	<5	mg/Kg
Total tyrosol derivatives	289	mg/Kg
Total hydroxytyrosol derivatives	176	mg/Kg
Total polyphenols analyzed	465	mg/Kg

Comments:

The levels of oleocanthal are higher than the average values (135 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 9,3mg 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+Oleokoronol

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