

**World Olive Center for Health**

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**Athens:** 18/11/2024**Cert. Num:** C2425-00229**CERTIFICATE OF ANALYSIS**

**Brand Name:** THE MIKKIS  
**Owner:** ERICH MIKK  
**Variety:** KORONEIKI  
**Origin:** AGNANTIO CHOUNES MESSINIA GREECE  
**Harvesting Period:** November 2024  
**Oil Mill:** LIOKLADO

**Analysis Date:** 08/11/2024**Production Date:** 04/11/2024**Chemical Analysis****Acidity:** 0,20(<0,8)

Peroxides: 8,80 meqO2/Kg (&lt;20)

K232: 1,903 (&lt;2,5), K270: 0,171 (&lt;0,22), ΔK: -0,0060

Oleocanthal 216 mg/Kg

Oleacein 204 mg/Kg

Oleocanthal+Oleacein (index D1) 420 mg/Kg

Ligstroside aglycon (monoaldehyde form) 67 mg/Kg

Oleuropein aglycon (monoaldehyde form) 102 mg/Kg

Ligstroside aglycon (dialdehyde form)\* 153 mg/Kg

Oleuropein aglycon (dialdehyde form)\*\* 95 mg/Kg

Free Tyrosol 26 mg/Kg

Total tyrosol derivatives 463 mg/Kg

Total hydroxytyrosol derivatives 401 mg/Kg

**Total polyphenols analyzed 863 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 17,26mg 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

Magiatis Prokopios

**Criteria:**

Bronze (total polyphenols 250 - 499 mg/kg).

**Silver (total polyphenols 500 - 999 mg/kg).**

Gold (total polyphenols &gt;1000mg/kg)

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