



World Olive Center for Health

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Athens: 20/10/2025

Cert. Num: C2526-00088

CERTIFICATE OF ANALYSIS

Brand Name: KALI 2 TOSCANO MONOVARIENTAL LECCINO

Analysis Date: 09/10/2025

Owner: KALI Srl Societa Agricola

Variety:

Origin:

Harvesting Period: OCTOBER 2025

Production Date:

Oil Mill:

Chemical Analysis

Acidity: 0.16(<0.8)

Peroxides: 1.20 meqO2/Kg (<20)

K232: 1.869 (<2.5), K270: 0.155 (<0.22), ΔK: -0.0050

Oleocanthal 204 mg/Kg

Oleacein 279 mg/Kg

Oleocanthal+Oleacein (index D1) 483 mg/Kg

Ligstroside aglycon (monoaldehyde form) 28 mg/Kg

Oleuropein aglycon (monoaldehyde form) 68 mg/Kg

Ligstroside aglycon (dialdehyde form)* 139 mg/Kg

Oleuropein aglycon (dialdehyde form)** 153 mg/Kg

Free Tyrosol <5 mg/Kg

Total tyrosol derivatives 371 mg/Kg

Total hydroxytyrosol derivatives 500 mg/Kg

Total polyphenols analyzed 871 mg/Kg

Chemical Analysis

by HPLC

Total polyphenols expressed as tyrosol equivalents by HPLC method = 676 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 17,43mg 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.

*Ligstrodiol+Oleokoronal **Oleomissional+Oleuropeindial

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