

**World Olive Center for Health**

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Athens: 06/10/2022**Cert. Num: C2223-00075****CERTIFICATE OF ANALYSIS**

Brand Name: LACONIKO
Owner: PIERRAKOS ADAMANTIOS
Variety: KALAMON
Origin: LAKONIA GREECE
Harvesting Period: September 2022
Oil Mill:

Analysis Date: 06/10/2022**Production Date:****Chemical Analysis**

Oleocanthal	969	mg/Kg
Oleacein	259	mg/Kg
Oleocanthal+Oleacein (index D1)	1.228	mg/Kg
Ligstroside aglycon (monoaldehyde form)	35	mg/Kg
Oleuropein aglycon (monoaldehyde form)	22	mg/Kg
Ligstroside aglycon (dialdehyde form)*	<5	mg/Kg
Oleuropein aglycon (dialdehyde form)**	<5	mg/Kg
Free Tyrosol	<5	mg/Kg
Total tyrosol derivatives	1.003	mg/Kg
Total hydroxytyrosol derivatives	280	mg/Kg
Total polyphenols analyzed	1.284	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 25,67mg 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

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START OF CERTIFICATE ANALYSIS

CHEMICAL ANALYSIS.

S.C : -6-76-22

I.D: LACONIKO ZOI

Sample labeling : KALAMON

ADDRESS : SKALA LAKONIAS GREECE

Date of issue : 5/10/2022

Incoming Date : 4/10/2022

Sample taken from: Owner

Bottle of : GLASS 0.100 lt.

Oil analysis for:

	SAMPLE RESULT	LIMITS (1)	MEASUREMENT UNITS
Acidity (%as oleicacid)	0,21	M 0,80	% g/100gr
K 270	0,172	M 0,220	-
K 232	1,710	M2,500	-
D.K	-0,002	M 0,010	-
Peroxide value	2,17	M 20,00	Meq O ₂ /Kg

END OF CERTIFICATE ANALYSIS

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