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**CERTIFICATE OF ANALYSIS**

**Analysis Date:** 29/11/2019

**Owner:** ASTRIKAS ESTATE BIOLEA  
**Variety:** LIANOLIA  
**Origin:** ASTRIKAS EPISKOPI CHANIA GREECE  
**Harvest Period:** November 2019

**Chemical Analysis**

Oleocanthal	101 mg/Kg
Oleacein	42 mg/Kg
Oleocanthal + Oleacein (index D1)	142 mg/Kg
Ligstroside aglycon (monoaldehyde form)	25 mg/Kg
Oleuropein aglycon (monoaldehyde form)	22 mg/Kg
Ligstroside aglycon (dialdehyde form)	30 mg/Kg
Oleuropein aglycon (dialdehyde form)	17 mg/Kg
Total tyrosol derivatives	156 mg/Kg
Total hydroxytyrosol derivatives	80 mg/Kg
Total polyphenols analyzed	236 mg/Kg

**Comments :**

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 according to the method published in J.Agric. Food Chem., 2012, 60 ( 47) , pp 11696-11703, J.Agric. Food Chem., 2014 62 ( 3) , 600-607 and OLIVAE, 2015, 122, 22-33.

\*Oleomissional+Oleuropeindial \*\*Ligstrodial+Oleokoronal

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