جامعة طرابلس
University of Tripoli
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Tripoli, Libya: 15/10/2025

Certificate No.: UOT-LAB-251015-0457

CERTIFICATE OF ANALYSIS

Brand Name: Ènoir

Owner: Ènoirfarms

Variety: CHEMILALI

Origin: LIBYA

Harvesting Period: OCTOBER 2025

Oil Mill: COLD EXTRACTION – WITHIN 6 HOURS OF HARVEST

Analysis Date: 15/10/2025

Production Date: 10/10/2025

Chemical Analysis

Parameter	Result	Unit
Oleocanthal	170	mg/kg
Oleacein	122	mg/kg
Oleocanthal + Oleacein (index D1)	292	mg/kg
Ligstroside aglycon (monoaldehyde form)	76	mg/kg
Oleuropein aglycon (monoaldehyde form)	112	mg/kg
Ligstroside aglycon (dialdehyde form)*	139	mg/kg
Oleuropein aglycon (dialdehyde form)**	113	mg/kg
Free Tyrosol	< 5	mg/kg
Total tyrosol derivatives	385	mg/kg
Total hydroxytyrosol derivatives	347	mg/kg
Total polyphenols analyzed	732	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 20,92mg 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 Scientific Research and Analysis Laboratory, Faculty of Science – Department of Chemistry, University of Tripoli, using validated methods according to ISO/IEC 17025.
The results relate to the analyzed sample.

*Ligstrodial+Oleokoronal **Oleomissional+Oleuropeindial

Dr. Ayman M. Ben Ali

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