

LABORATORIO
unaproliva



**ORGANOLEPTICAL CERTIFICATION AND CHEMICAL ANALYSIS
UNDER I.O.O.C. NORMS (INTERNATIONAL OLIVE OIL COUNCIL)**

Client:	OLEOIBEROLIVA, S.A.	N° Sample:	1407340
e-mail:	olivardesoto@oleoiberoliva.com	Register Sample:	22/12/2014
NIF:	B23493109	Begin Analysis:	22/12/2014
Address:	P.I. Condado de Santisteban C/Montizón, 1-3 Ap.14	Finish Analysis:	07/01/2015
City:	23250 Santisteban del Puerto (Jaén)		
T. Analysis:	INFORMATIVE		
Specification:	EXTRA VIRGIN OLIVE OIL L-021214D7		

Parameter	Result	Limit
Acidity	0.11 % Oleic Acid	≤ 0.8
Peroxide Index	7.3 meqO ₂ /kg	≤ 20
K ₂₇₀	0.14	≤ 0.22
K ₂₃₂	1.56	≤ 2.50
ΔK	0	≤ 0.01
Moisture and volatile matter	0.05 %	≤ 0.20
Impurities	0.01 %	≤ 0.10
ALKYL ESTERS	11	≤ 75 ppm
Methyl Esters	7	
Ethyl Esters	4	
Ethyl E./Methyl E.	1.7	
Organoleptic Assessment	Extra Virgin Olive Oil	
Median of fruity	3.8	Mf>0
Median of defects	0	Md=0
Difference between HPLC ECN42 and theoretical ECN42	0.01	≤ 0.2
HPLC ECN42	0.21	
THEORETICAL ECN42	0.22	
FATTY ACIDS COMPOSITION		
Myristic acid	0.01 %	≤ 0.05
Palmitic acid	9.73 %	
Palmitoleic acid	0.76 %	
Margaric acid	0.06 %	
Margaroleic acid	0.10 %	
Stearic acid	3.70 %	
Oleic acid	79.42 %	
Linoleic acid	4.61 %	
Linolenic acid	0.68 %	≤ 1.0
Arachidic acid	0.44 %	≤ 0.6
Gadoleic acid	0.25 %	≤ 0.4
Behenic acid	0.12 %	≤ 0.2
Lignoceric acid	0.05 %	≤ 0.2
Trans-oleic acid	0 %	≤ 0.05
Translinoleic and translinolenic acid (%)	0 %	≤ 0.05
GLYCERYL-2-MONOPALMITATE	0.389%	≤ 0.9
Waxes (mg/kg) (C42+C44+C46)	45 ppm	< 150

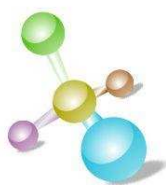


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del Aceite de Oliva, S.A.

Parameter	Result	Limit
STEROLS COMPOSITION		
Colesterol	0.07 %	≤ 0.5
Brassicasterol	<0.01%	≤ 0.1
Campesterol	3.3 %	≤ 4.0
Stigmasterol	0.6 %	< campesterol
Beta-sitosterol	95.1 %	> 93.0
Delta-7-stigmasterol	0.23 %	≤ 0.5
Total sterols	1213 mg/kg	≥ 1000
Erythrodiol + uvaol	1.8 %	≤ 4.5
STIGMASTADIENE	<0.01 mg/kg	≤ 0.05
HALOGEN SOLVENTS	<0.01	
Trichloroethylene	<0.01	
Perchloroethylene	<0.01	
METALS IN OIL		
Copper	<0.1 mg/kg	<0.1 mg/kg
Iron	<1.0 mg/kg	<3.0 mg/kg
Lead	<0.05 mg/kg	<0.1 mg/kg
Arsenic	<0.05 mg/kg	<0.1 mg/kg
Chrome	<0.2 mg/kg	
Aflatoxin B1	<2 µg/kg	<10 µg/kg
Total PAH's	< 1.0 ppb	< 10.0
benzo a anthracene	< 1.0 ppb	< 2.0 ppb
benzo b fluoranthene	< 1.0 ppb	< 2.0 ppb
Benzo a Pyrene	< 1.0 ppb	< 2.0 ppb
Chrysene	< 1.0 ppb	< 2.0 ppb
PESTICIDE RESIDUES		
Alachlor	ND	≤ 0.225
Atrazine	ND	≤ 0.225
Captafol	ND	≤ 0.225
Carbaryl	ND	≤ 0.225
Cypermethrin	ND	≤ 0.225
Chlorothalonil	ND	≤ 0.225
Chlorpyrifos Ethyl	ND	≤ 0.225
Chlorpyrifos methyl	ND	≤ 0.225
Delthametrin	ND	≤ 0.225
Diazinon	ND	≤ 0.225
Difenoconazole	ND	≤ 0.225
Diiflufenican	ND	≤ 0.225
Dimetoathe	ND	≤ 0.225
Diuron	ND	≤ 0.225
Endosulfan (alpha+beta+sulphate)	ND	≤ 0.225
Endrin	ND	≤ 0.225
Ethion	ND	≤ 0.225
Fenitrition	ND	≤ 0.225
Fenoxycarb	ND	≤ 0.225
Fenthion	ND	≤ 0.225
Formothion	ND	≤ 0.225
Phosmet	0.04	≤ 0.225
Lambda-Cyhalothrin	ND	≤ 0.225



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Parameter	Result	Limit
Lindane	ND	≤ 0.225
Malathion	ND	≤ 0.225
Metidathion	ND	≤ 0.225
Oxyfluorfen	0.03 ppm	≤ 0.225
Parathion Ethyl	ND	≤ 0.225
Parathion Methyl	ND	≤ 0.225
Pirimiphos Methyl	ND	≤ 0.225
Procymidone	ND	≤ 0.225
Promecarb	ND	≤ 0.225
Simazine	ND	≤ 0.225
Tebuconazole	ND	≤ 0.225
Terbuthylazine	ND	≤ 0.225
Terbuthrine	ND	≤ 0.225
Trichlorfon	ND	≤ 0.225

Authorized laboratory by the agriculture council and fishes A-056-AU. Laboratory recognized by International Olive Oil Council advice for period 01.12.14 the 30.11.15. Laboratory recognized by MFAO for 2014.

Note: These results correspond only to the sample indicated in this analysis. This report should not be reproduced without our express written consent. The single analysis gives faith of the received sample. *The analyzed* parameters fulfil the specifications established by the International Olive Oil Council and the EU Regulation number 2568/91 and subsequent amendments for olive oil.

Jaén, 12 January 2015

Vº Bº Manager

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