



### CERTIFICATE OF ANALYSIS no: 47244

Date of issue: 11/11/2014

**CUSTOMER:** MACEDONIAN EARTH AGRICULTURAL PRODUCTS OF GREECE

**FAX :**

**MULTICHROM.LAB CODE No :** 47244

**Date of analysis (from):** 5/11/2014

**DECLARED COMMODITY:** EXTRA VIRGIN OLIVE OIL

**(to):** 11/11/2014

**RECEIVING DATE:** 5/11/2014

**SAMPLE CONDITION:** NORMAL

**SEALS:** INTACT COMMERCIAL BOTTLE

**SAMPLING BY:** CUSTOMER

**DATA:** OLEA KASSANDRA, 250ml, EL 025, BEST BEFORE 12/2016

### RESULTS

Determination	Method	Unit	Result	Limit
Acidity	2568/91	%	0,15	≤ 0,80
K Coefficients	2568/91	-	-	-
K268		-	0,096	≤ 0,22
K232		-	1,317	≤ 2,50
DK		-	0,000	≤ 0,01
Peroxide Value	2568/91	meqO2/kg	2,6	≤20,0
ΔECN42	2568/91	-	0,1	≤ 0,2
Stigmastadienes	2568/91	ppm	0,01	≤ 0,05
Total Ethylesters of Fatty Acids	COI/T.20/Doc. 28 - 2009	mg/kg	6	≤ 40
Fatty Acids	2568/91	%	-	-
C14:0 (Myristic)			0,01	≤ 0,03
C16:0 (Palmitic)			11,39	7,5-20,0
C16:1 (Palmitoleic)			1,01	0,3-3,5
C17:0 (Heptadecanoic)			0,03	≤ 0,3
C17:1 (Heptadecenoic)			0,07	≤ 0,3
C18:0 (Stearic)			1,78	0,5-5,0
C18:1 (Oleic) (ω9)			79,32	55,0-83,0
C18:2 (Linoleic) (ω6)			4,87	3,5-21,0
C18:3 (Linolenic) (ω3)			0,55	≤ 1,0
C20:0 (Arachidic)			0,39	≤ 0,6
C20:1 (Eicosenoic)			0,37	≤ 0,4
C22:0 (Behenic)			0,13	≤ 0,2
C22:1 (Erucic) (ω9)			0,00	-
C24:0 (Lignoceric)			0,08	≤ 0,2
trans C18:1			0,01	≤ 0,05
trans C18:2 + trans C18:3			0,01	≤ 0,05
Sterols	EU 2568/91	mg/kg	1206	≥ 1000
Cholesterol		%	0,1	≤ 0,5
Brassicasterol		%	0,0	≤ 0,1
24-methylcholesterol		%	0,1	-
Campesterol (Campes.)		%	3,8	≤ 4,0
Campestanol		%	0,0	-

The above results concern only the sample we examined.

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n.d. - not detected, LoD - limit of detection of the method (the lowest concentration of a substance that can be distinguished from the absence of that substance for the given analytical procedure), LoQ - limit of quantitation of the method (the concentration of a substance at which quantitative results can be reported with a high degree of confidence for the given analytical procedure), (1) semi-quantitative, (2) no metabolites included.

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**RESULTS**

Determination	Method	Unit	Result	Limit
Stigmasterol		%	0,6	< Campes.
d7-campestanol		%	0,0	-
d5,23stigm/dienol		%	0,0	-
Clerosterol		%	1,0	-
B-sitosterol		%	89,7	-
Sitostanol		%	0,3	-
d5-avenasterol		%	3,5	-
d5,24-stigm/dienol		%	0,5	-
d7-stigmastenol		%	0,2	≤ 0,5
d7-avenasterol		%	0,3	-
Erythrodiol		%	0,3	-
Uvaol		%	0,2	-
Erythrodiol+uvaol		%	0,5	≤ 4,5
Total b-sitosterol		%	94,9	≥ 93,0
Waxes	2568/91	mg/kg	15	≤ 150
Sensory Evaluation	2568/91	-	Extra Virgin	-
Defects			0,0	= 0
Fruitiness			5,0	> 0
Bitter			2,0	-
Pungent			3,5	-

For **multichrom.lab**  
E. Salivaras, M.Sc.

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