OLITECN
LABORATORY RESEARCH AND ANALYSIS - TECHNICAL CONSULTING

INTERNATIONAL OLIVE COUNCIL
CHEMICAL TESTING LABORATORY RECOGNIZED

FOSFA INTERNATIONAL
ASSOCIATE ANALYST MEMBER

ANALYSIS REPORT

2/3/2018

OLITECN ID: 80129
CUSTOMER: LANSCAPE E.ITE
DATE OF RECEIPT: 22/2/2018
DATE OF ANALYSIS: 22/2/2018
DECLARED OIL TYPE: EXTRA VIRGIN OLIVE OIL
SAMPLING PROCEDURE: BY THE CUSTOMER
SAMPLE DATA:
SAMPLE DESCRIPTION: 500 ml OF SAMPLE IN A TRANSPARENT GLASS BOTTLE "ELAIOPHYSIS" OF 500 ml

ACIDITY %:	0,23	(max 0,8)
K270:	0,126	(0,22)
K232:	1,540	(max 2,50)
ΔK:	-0,003	(max 0,01)
PEROXIDE VALUE(meqO2/kg):	6,8	(max 20)

FATTY ACIDS (%) of total fatty acids

MYRISTIC:	0,02	(max 0,03)
PALMITIC:	11,41	
PALMITOLEIC:	0,88	
HEPTADECANOIC:	0,05	
HEPTADECENOIC:	0,06	
STEARIC:	2,73	
OLEIC:	76,97	
LINOLEIC:	6,23	
LINOLENIC:	0,66	(max 1,00)
EICOSANOIC:	0,46	(max 0,60)
EICOSENOIC:	0,29	(max 0,40)
BEHENIC:	0,17	(max 0,20)
ERUCIC:	0,00	
LIGNOCERIC:	0,06	(max 0,20)
C18:1trans:	0,02	(max 0,05)
C18:2+C18:3trans:	0,00	(max 0,05)

STEROLS (%) of total sterols

CHOLESTEROL:	0,10	(max 0,5)
BRASICASTEROL:	0,00	(max 0,1)
24-METHYLCHOLESTEROL:	0,37	
CAMPESTEROL:	3,35	(max 4,0)
CAMPESTANOL:	0,09	
STIGMASTEROL:	0,52	<CAMPESTEROL
Δ7-CAMPESTANOL:	0,00	
Δ5,23-STIGMASTADIENOL:	0,00	
CLEROSTEROL:	0,87	
β-SITOSTEROL:	72,97	
SITOSTANOL:	0,22	
Δ5-AVENASTEROL:	20,30	
Δ5,24-STIGMASTADIENOL:	0,60	
Δ7-STIGMASTENOL:	0,21	(max 0,5)
Δ7-AVENASTEROL:	0,40	
ERYTHRODIOL AND UVAOL:	2,91	(max 4,5)
TOTAL β-SITOSTEROL:	94,95	(min 93,0)
STEROLS mg/kg:	1193	(min 1000)

(FOLIN-CIOCALTEU METHOD)

PHENOLIC COMPOUNDS ppm:	280	(50-500 ppm)

RESULTS: BASED ON THE DETERMINED PARAMETERS, THE PRESENT SAMPLE OF OLIVE OIL MEET THE SPECIFICATIONS OF EXTRA VIRGIN OLIVE OIL, ACCORDING TO EUROPEAN REGULATION 2568/91 AND FOLLOWING AMENDMENTS.

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THE ANALYST

PANAGIOTIS KONSTANTINOU
CHEMIST

METHODOLOGY: EUROPEAN UNION REG. 2568/91 AND FOLLOWING AMENDEMENTS (UNLESS OTHERWISE

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PHTHALIC ACID ESTERS, mg/kg *IN HOUSE METHOD, GC-MS*

DMP (Dimethyl-phtalate) :	< LOQ	*(LOQ: 0,10)*	
DEP (Diethyl-phtalate) :	< LOQ	*(LOQ: 0,10)*	
DBA (Dibutyladipate) :	< LOQ	*(LOQ: 0,10)*	
DIBP (Diisobutylphtalate) :	< LOQ	*(LOQ: 0,10)*	
DBP (Dibutyl-phtalate) :	< LOQ	*(LOQ: 0,10)*	**max 0,3*
BBP (Butyl-benzyl-phtalate) :	< LOQ	*(LOQ: 0,10)*	**max 30,0*
DEHA (Bis-2-ethylhexyl-adipate) :	< LOQ	*(LOQ: 0,10)*	
DEHP (Bis-2-ethylhexyl-phthalate):	< LOQ	*(LOQ: 0,10)*	**max 1,5*
DNOP (Di-n-octyl-phtalate):	< LOQ	*(LOQ: 0,10)*	
DINP (Diisononyl-phtalate) :	< LOQ	*(LOQ: 0,50)*	**max 9,0*
DIDP (Diisodecyl-phtalate) :	< LOQ	*(LOQ: 0,50)*	**max 9,0*

LOQ: Limit of Quantification

**The above mentioned specific migration limits, expressed as mg/kg oil, are refered on plastic materials and articles intended to come into contact with non fatty food, according to the European Regulation EC 10/2011.*

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MULTI – RESIDUE ANALYSIS (GC–MS, GC–FPD, GC–ECD)

COMPOUND NAME	RESULT	REPORTING LIMIT (mg / kg)	COMPOUND NAME	RESULT	REPORTING LIMIT (mg / kg)
Azinphos-Ethyl	< R.L.	0,01	Prophenophos	< R.L.	0,01
Azinphos-Methyl	< R.L.	0,01	Pyrazophos	< R.L.	0,01
Chlorfenvinphos	< R.L.	0,01	Pyriproxyfen	< R.L.	0,01
Chlorpyriphos-Et	< R.L.	0,01	Metalaxyl	< R.L.	0,01
Chlorpyriphos-Me	< R.L.	0,01	Triadimefon	< R.L.	0,01
Dichlorvos	< R.L.	0,01	Triadimenol	< R.L.	0,01
Dimethoate	< R.L.	0,01	Kresoxim-methyl	< R.L.	0,01
Ethion	< R.L.	0,01	Oxyfluorfen	< R.L.	0,01
Ethoprophos	< R.L.	0,01	Fluazifop-p-butil	< R.L.	0,01
Fenamiphos	< R.L.	0,01	Acrinathrin	< R.L.	0,01
Fenitrothion	< R.L.	0,01	Biphenthrin	< R.L.	0,01
Fenthion	< R.L.	0,01	Cyfluthrin I	< R.L.	0,01
Fenthion Sulfone	< R.L.	0,01	Cyfluthrin II	< R.L.	0,01
Fenthion Sulfoxide	< R.L.	0,01	Cyfluthrin III	< R.L.	0,01
Malaoxon	< R.L.	0,01	Cyfluthrin IV	< R.L.	0,01
Malathion	< R.L.	0,01	Cypermethrin I	< R.L.	0,01
Methamidophos	< R.L.	0,01	Cypermethrin II	< R.L.	0,01
Methidathion	< R.L.	0,01	Cypermethrin III	< R.L.	0,01
Omethoate	< R.L.	0,01	Cypermethrin IV	< R.L.	0,01
Paraoxon	< R.L.	0,01	Deltamethrin	< R.L.	0,01
Parathion Methyl	< R.L.	0,01	L-cyhalothrin	< R.L.	0,01
Phenthoate	< R.L.	0,01	Permethrin	< R.L.	0,01
Pirimiphos-Ethyl	< R.L.	0,01	Resmethrin	< R.L.	0,01
Pirimithos-Methyl	< R.L.	0,01	Tefluthrin	< R.L.	0,01

NOTE 1: The tables show all the analyzed compounds and their Reporting Limit
NOTE 2: "<R.L." means that the concentration of the compound is below the reporting limit
NOTE 3: The analytical results hereby reported are referred only to the analyzed sample.
NOTE 4: Partial reproduction is prohibited without laboratory's authorization.

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