

Poggibonsi, 20/12/2018

TEST REPORT n° 18105827 of 20/12/2018

Customer
DANTI ALIS
VIA DI VITTORIO, 34
50022 GREVE IN CHIANTI FI

Sample	18105827	Received date	11/12/2018	Page	1 di 3
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Item	Oils and Fats
Identification	Olio Extravergine d'Oliva - Sampling performed by the client

Start Date	11/12/2018
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Parameter / Method	Result	Inc. (±)	U.M.	LOD	LOQ	Limits m=min M=Max	End Date	Note
Fatty acids Methyl esters								
Myristic Acid (C14:0) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L248 05/09/1991 All X Reg UE 2015/1833 12/10/2015 GU UE L266/29 13/10/2015 All IV</i>	0.01	±0.01	%		0.01	M 0.03 ⁽¹⁾	17/12/18	
Palmitic Acid (C16:0) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L248 05/09/1991 All X Reg UE 2015/1833 12/10/2015 GU UE L266/29 13/10/2015 All IV</i>	13.58	±0.48	%		0.01	m 7.50 M 20.00 ⁽¹⁾	17/12/18	
Palmitoleic Acid (C16:1) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L248 05/09/1991 All X Reg UE 2015/1833 12/10/2015 GU UE L266/29 13/10/2015 All IV</i>	0.81	±0.69	%		0.01	m 0.30 M 3.50 (1)	17/12/18	
Heptadecanoic Acid (C17:0) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L248 05/09/1991 All X Reg UE 2015/1833 12/10/2015 GU UE L266/29 13/10/2015 All IV</i>	0.04	±0.01	%		0.01	M 0.40 ⁽¹⁾	17/12/18	
Heptadecenoic acid (C17:1) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L248 05/09/1991 All X Reg UE 2015/1833 12/10/2015 GU UE L266/29 13/10/2015 All IV</i>	0.06	±0.02	%		0.01	M 0.60 ⁽¹⁾	17/12/18	
Stearic Acid (C18:0) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L248 05/09/1991 All X Reg UE 2015/1833 12/10/2015 GU UE L266/29 13/10/2015 All IV</i>	2.15	±0.12	%		0.01	m 0.50 M 5.00 (1)	17/12/18	
Oleic Acid (C18:1) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L248 05/09/1991 All X Reg UE 2015/1833 12/10/2015 GU UE L266/29 13/10/2015 All IV</i>	73.92	±0.97	%		0.01	m 55.00 M 83.00 ⁽¹⁾	17/12/18	
Linoleic Acid (C18:2) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L248 05/09/1991 All X Reg UE 2015/1833 12/10/2015 GU UE L266/29 13/10/2015 All IV</i>	8.04	±0.24	%		0.01	m 2.50 M 21.00 ⁽¹⁾	17/12/18	
Linolenic Acid (C18:3) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L248 05/09/1991 All X Reg UE 2015/1833 12/10/2015 GU UE L266/29 13/10/2015 All IV</i>	0.67	±0.06	%		0.01	M 1.00 ⁽¹⁾	17/12/18	
Arachidic Acid (C20:0) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L248 05/09/1991 All X Reg UE 2015/1833 12/10/2015 GU UE L266/29 13/10/2015 All IV</i>	0.33	±0.06	%		0.01	M 0.60 ⁽¹⁾	17/12/18	
Eicosenoic Acid (C20:1) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L248 05/09/1991 All X Reg UE 2015/1833 12/10/2015 GU UE L266/29 13/10/2015 All IV</i>	0.26	±0.06	%		0.01	M 0.50 ⁽¹⁾	17/12/18	
Behenic Acid (C22:0) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L248 05/09/1991 All X Reg UE 2015/1833 12/10/2015 GU UE L266/29 13/10/2015 All IV</i>	0.10	±0.03	%		0.01	M 0.20 ⁽¹⁾	17/12/18	
Lignoceric Acid (C24:0) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L248 05/09/1991 All X Reg UE 2015/1833 12/10/2015 GU UE L266/29 13/10/2015 All IV</i>	0.04	±0.04	%		0.01	M 0.20 ⁽¹⁾	17/12/18	
Peroxide value <i>Reg CEE 2568/1991 11/07/1991 GU CEE L248 05/09/1991 All III Reg UE 2016/1784 30/09/2016 GU UE L273/5 08/10/2016 All</i>	7.8	±2.3	meq O2/kg		0.2	M 20 ⁽¹⁾	12/12/18	
Free fatty acids (Acidity) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L248 05/09/1991 All II Reg UE 2016/1227 27/07/2016 GU UE L202/7 28/07/2016 All I</i>	0.21	±0.06	% oleic acid		0.01	M 0.80 ⁽¹⁾	12/12/18	
Total Phenols (*) <i>ML025 rev. 0 2006</i>	577		mg/kg gallic acid				12/12/18	

Continue...

Continue... TEST REPORT n° 18105827 of 20/12/2018

Sample	18105827	Received date	11/12/2018	Page	2 di 3
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Parameter / Method	Result	Inc. (±)	U.M.	LOD	LOQ	Limits m=min M=Max	End Date	Note
Sterols								
Cholesterol (*) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L 248 5/09/1991 AII V</i>	0.12		%	0.05	0.10	M 0.5 ⁽¹⁾	20/12/18	sub
Brassicasterol (*) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L 248 5/09/1991 AII V</i>	<0.10		%	0.05	0.10	M 0.1 ⁽¹⁾	20/12/18	sub
Campesterol (*) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L 248 5/09/1991 AII V</i>	2.46		%	0.05	0.10	M 4.0 ⁽²⁾	20/12/18	sub
Stigmasterol (*) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L 248 5/09/1991 AII V</i>	0.41		%	0.05	0.10	M < Campesterolo ⁽²⁾	20/12/18	sub
Delta-7-Campesterol (*) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L 248 5/09/1991 AII V</i>	<0.10		%	0.05	0.10		20/12/18	sub
Chlerosterol (*) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L 248 5/09/1991 AII V</i>	0.89		%	0.05	0.10		20/12/18	sub
β-Sitosterol (*) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L 248 5/09/1991 AII V</i>	78.5		%	0.05	0.10		20/12/18	sub
Delta-7-Avenasterol (*) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L 248 5/09/1991 AII V</i>	0.66		%	0.05	0.10		20/12/18	sub
Delta-7-Stigmasterol (*) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L 248 5/09/1991 AII V</i>	0.15		%	0.05	0.10	M 0.5 ⁽²⁾	20/12/18	sub
App β-Sitosterol (*) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L 248 5/09/1991 AII V</i>	95.7		%	0.05	0.10	m 93.0 ⁽²⁾	20/12/18	sub
Total Sterols (*) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L 248 5/09/1991 AII V</i>	1470		mg/kg	0.05	0.10	m 1000 ⁽¹⁾	20/12/18	sub
Erythrodiol (*) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L 248 5/09/1991 AII V</i>	1.49		%	0.05	0.10		20/12/18	sub
Uvaol (*) <i>Reg CEE 2568/1991 11/07/1991 GU CEE L 248 5/09/1991 AII V</i>	0.48		%	0.05	0.10		20/12/18	sub
Total Tocopherols <i>UNI EN ISO 9936:2016</i>	140	±21	mg/kg a-tocopherol		10		18/12/18	

The tests marked with an asterisk (*) are not included in the ACCREDIA accreditation of this laboratory.

Sampling (#) is not included in the ACCREDIA accreditation of this laboratory. (ISVEA Srl disclaims any responsibility on sampling methods performed by a third party).

Unc.: uncertainty expressed as expanded uncertainty with coverage factor k=2 and confidence level of 95%.

Rec= Recovery (recovery's not applied unless otherwise specified)

ML= Internal Method LOQ= Limit of Quantification

LOD= Limit of Detection (unless otherwise specified the value is LOQ/3)

U.M= Unit of Measure N.D.= Not Detectable (<LOD)

U.A.= adimensional unit OIV= Organisation Internationale de la Vigne et du Vin

⁽¹⁾ Regolamento Delegato (UE) n°2016/2095 del 26/09/2016 - GU UE L326/1 del 01/12/2016

⁽²⁾ Reg. Delegato (UE) n°2016/2095 del 26/09/2016 - GU UE L326/1 del 01/12/2016

- Schema decisionale per il Campesterolo:

Stigmasterolo <= 1.4%; Delta-7-Stigmasterolo <= 0.3% --> 4.0% <= Campesterolo <= 4.5%.

- Schema decisionale per il Delta-7-Stigmasterolo:

Campesterolo <= 3,3; β-sitosterolo apparente/(Campesterolo+Delta-7-Stigmasterolo) >= 25,0; Stigmasterolo <= 1,4; Delta ECN (ECN42 - ECN42 teorico) <= 0,1 --> 0,5 < Delta-7-stigmasterolo <= 0,8.

Note: sub = Test subcontracted. ISVEA shall bear, towards the Customer, the liability of the outcome of subcontracted tests

Continue...

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Continue... TEST REPORT n° 18105827 of 20/12/2018

Sample	18105827	Received date	11/12/2018	Page	3 di 3
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Il Responsabile del Laboratorio
Dr. Alessandro Cavaglioni



ALBO DEI CHIMICI DELLA TOSCANA
n. 1494/A

END OF TEST REPORT