

Provisional Test Report 1711876

Monopoli, 17/05/2017

Sample reception 15/05/2017

Analysis starting date 15/05/2017

CUSTOMER

OLIVARES DON ALBERTO S.A.
 Avda Libertad 798 Suite 701
 2520997 Viña del Mar CHIL

Sample description

Label: Aceite de Oliva Extra Virgen "A - Frantoio, Monovarietal", producto Chileno - TNT Ref. GD974809497WW

Seal: Hermetically sealed dark glass bottle

Sampling procedure: By the Customer

Quantity of sample: 250 ml

Return of sample: No

TEST NAME	RESULT	U	U.M.	LOD	LOQ	R %	METHOD	LIMIT VALUE	NOTES	FINISHING DATE OF ANALYSIS
FREE FATTY ACIDS	0,24	±0,01	% Oleic Acid				21-C	0,8 ⁽¹⁾		16/05/2017
PEROXIDE VALUE	5,5	±0,3	meq O2/kg oil				02B2-C	20 ⁽¹⁾		16/05/2017
SPECTROPHOTOMETRIC INVESTIGATION IN THE ULTRAVIOLET										
K232	1,71	±0,02					10B-C	2,50 ⁽¹⁾		16/05/2017
K268	0,147	±0,002					10B-C	0,22 ⁽¹⁾		16/05/2017
Delta K	-0,001	±0,002					10B-C	0,01 ⁽¹⁾		16/05/2017
FATTY ACIDS METHYL ESTERS										
C12:0 - Lauric acid	ND		%				07B-C			17/05/2017
C14:0 - Myristic acid	0,01	±0,01	%				07B-C	0,03 ⁽¹⁾		17/05/2017
C16:0 - Palmitic acid	13,06	±0,71	%				07B-C	7,50;20,00 ⁽¹⁾		17/05/2017
C16:1 - Palmitoleic acid	0,96	±0,08	%				07B-C	0,30;3,50 ⁽¹⁾		17/05/2017
C17:0 - Heptadecanoic acid	0,05	±0,01	%				07B-C	0,40 ⁽¹⁾		17/05/2017
C17:1 - Heptadecenoic acid	0,09	±0,01	%				07B-C	0,60 ⁽¹⁾		17/05/2017
C18:0 - Stearic acid	2,20	±0,16	%				07B-C	0,50;5,00 ⁽¹⁾		17/05/2017
C18:1 - Oleic acid	73,52	±3,08	%				07B-C	55,00;83,00 ⁽¹⁾		17/05/2017
C18:2 - Linoleic acid	8,43	±0,49	%				07B-C	2,50;21,00 ⁽¹⁾		17/05/2017
C20:0 - Arachidic acid	0,39	±0,04	%				07B-C	0,60 ⁽¹⁾		17/05/2017
C18:3 - Linolenic acid	0,79	±0,07	%				07B-C	1,00 ⁽¹⁾		17/05/2017
C20:1 - Eicosenoic acid	0,32	±0,03	%				07B-C	0,50 ⁽¹⁾		17/05/2017
C22:0 - Behenic acid	0,12	±0,01	%				07B-C	0,20 ⁽¹⁾		17/05/2017
C22:1 - Erucic acid	ND		%				07B-C			17/05/2017
C24:0 - Lignoceric acid	0,06	±0,01	%				07B-C	0,20 ⁽¹⁾		17/05/2017
TRANS FATTY ACIDS CONTENT										
C18:1 - (Elaidinic)	0,01	±0,01	%				07B-C	0,05 ⁽¹⁾		17/05/2017
C18:2 + C18:3	0,01	±0,01	%				07B-C	0,05 ⁽¹⁾		17/05/2017
TRIGLYCERIDES WITH ECN42, in %										
L.L.L.	0,09		%				09/1-C			17/05/2017
O.L.Ln	0,27		%				09/1-C			17/05/2017
P.L.Ln	0,09		%				09/1-C			17/05/2017
Sum ECN-42 HPLC	0,45		%				09/1-C			17/05/2017
Theoretical ECN-42	0,48		%				09/1-C			17/05/2017
Difference	0,03		%				09/1-C	0,2 ⁽¹⁾		17/05/2017
STEROLS CONTENT										
Cholesterol	0,1	±0,1	%			0,1	04/1-C	0,5 ⁽¹⁾		17/05/2017
Brassicasterol	ND		%			0,1	04/1-C	0,1 ⁽¹⁾		17/05/2017
24-Methylenecholesterol	0,1	±0,1	%			0,1	04/1-C			17/05/2017

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TEST NAME	RESULT	U	U.M.	LOD	LOQ	R %	METHOD	LIMIT VALUE	NOTES	FINISHING DATE OF ANALYSIS
Campesterol	3,5	±0,1	%		0,1		04/1-C	4 ⁽¹⁾		17/05/2017
Campestanol	0,1	±0,1	%		0,1		04/1-C			17/05/2017
Stigmasterol	0,6	±0,1	%		0,1		04/1-C			17/05/2017
Delta-7-Campesterol	ND		%		0,1		04/1-C			17/05/2017
Delta-5,23-Stigmastadienol	ND		%		0,1		04/1-C			17/05/2017
Clerosterol	1,0	±0,1	%		0,1		04/1-C			17/05/2017
Betasisosterol	85,7	±1,0	%		0,1		04/1-C			17/05/2017
Sitostanol	1,2	±0,1	%		0,1		04/1-C			17/05/2017
Delta-5-Avenasterol	6,0	±0,1	%		0,1		04/1-C			17/05/2017
Delta-5,24-Stigmastadienol	0,8	±0,1	%		0,1		04/1-C			17/05/2017
Delta-7-Stigmastenol	0,3	±0,1	%		0,1		04/1-C	0,5 ⁽¹⁾		17/05/2017
Delta-7-Avenasterol	0,6	±0,2	%		0,1		04/1-C			17/05/2017
TOTAL BETASITOSTEROL	94,7	±0,3	%		0,1		04/1-C	≥93 ⁽¹⁾		17/05/2017
TOTAL STEROLS CONTENT	1448	±64	mg/kg		5		04/1-C	≥1000 ⁽¹⁾		17/05/2017
ERYTHRODIOL AND UVAOL	4,1	±0,6	%				05/1-C	4,5 ⁽¹⁾		17/05/2017
WAXES (C42+C44+C46)	50,4	±1,5	mg/kg				03B-C	150 ⁽¹⁾		17/05/2017
STIGMASTADIENES	< 0,01		mg/kg		0,01		14B-C	0,05 ⁽¹⁾		17/05/2017
BIOPHENOLS										
Total Polyphenols (as tyrosol)	235	±34	mg/kg		30		1020			17/05/2017
Hydroxy-tyrosol (3,4 DHPEA)	< 3		mg/kg		3		* 1020			17/05/2017
Tyrosol (p, HPEA)	5		mg/kg		3		* 1020			17/05/2017
Dialdehydic form of decarboxymethyl oleuropein aglycon (3,4 DHPEH-EDA)	12		mg/kg		3		* 1020			17/05/2017
Dialdehydic form of decarboxymethyl ligstroside aglycon (p, HPEA-EDA)	42		mg/kg		3		* 1020			17/05/2017
Lignans	57		mg/kg		3		* 1020			17/05/2017
Oleuropein aglycon (3,4 DHPEA-EA)	43		mg/kg		3		* 1020			17/05/2017
Ligstroside aglycon (p, HPEA-EA)	23		mg/kg		3		* 1020			17/05/2017

Conclusions

The values resulted meet the specifications demanded for EXTRA VIRGIN OLIVE OILS by International Olive Oil Council Trade Standard IOC/T.15/NC No 3/Rev. 11 July 2016.

References for limits

⁽¹⁾ IOC/T.15/NC No 3/Rev. 11 (July 2016)

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Notes

ND: Not Detectable as lower than the LOD of the test method.

U: Expanded uncertainty expressed with the same unit of measurement of the result obtained, calculated using a K factor = 2 for assuring a confidence level around 95% or, for microbiological tests, confidence interval with level of probability around 95%. For microbiological test the result is reported as "estimated" number of micro-organism per milliliter or gram if it is based on count less than 10, but at least 4.

LOD: Limit of Detection, the lowest concentration of analyte that can be detected, but not necessarily quantitated under the stated test conditions.

LOQ: Limit of Quantification, the lowest concentration of an analyte that can be determined with acceptable precision and accuracy under the stated conditions of the test.

R% : Mean Recovery in percentage (this value is not used to amend pesticides and metals analytical results).

En: Revision "N" of the Test Report that identifies the Amendment. This document replaces any previous version of the Test Report.

*: TEST NOT ACCREDITED BY ACCREDIA

Methods:

02B2-C = ISO 3960:2007
03B-C = AOCS Ch 8-02:2009
04/1-C = COI/T.20/Doc. n. 10 2001
05/1-C = COI/T.20/Doc. n. 30 2011
07B-C = AOCS Ce 2-66:2009 + AOCS Ce 1f-96:2009
09/1-C = COI/T.20 Doc. n. 20 2010
1020 = COI/T.20/Doc. n. 29 2010
10B-C = AOCS Ch 5-91:2009
14B-C = ISO 15788-1:1999
21-C = ISO 660:2009

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END OF TEST REPORT