

## Provisional Test Report 1712680

Monopoli, 31/05/2017

Sample reception 25/05/2017

Analysis starting date 25/05/2017

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, Arbequina Monovarietal - Producto Chileno

Additional information of the customer: Ref. TNT AWB No.: GD974743019WW

Seal: Hermetically sealed dark glass bottle in transparent plastic bag sealed with orange plastic seal (TNT 0108274)

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
<b>FREE FATTY ACIDS</b>	<b>0,16</b>	±0,01	% Oleic Acid				21-C	0,8 <sup>(1)</sup>		26/05/2017
<b>PEROXIDE VALUE</b>	<b>6,7</b>	±0,4	meq O2/kg oil				02B2-C	20 <sup>(1)</sup>		26/05/2017
<b>SPECTROPHOTOMETRIC INVESTIGATION IN THE ULTRAVIOLET</b>										
K232	<b>1,55</b>	±0,02					10B-C	2,50 <sup>(1)</sup>		26/05/2017
K268	<b>0,124</b>	±0,002					10B-C	0,22 <sup>(1)</sup>		26/05/2017
Delta K	<b>-0,003</b>	±0,002					10B-C	0,01 <sup>(1)</sup>		26/05/2017
<b>FATTY ACIDS METHYL ESTERS</b>										
C12:0 - Lauric acid	ND		%				07B-C			29/05/2017
C14:0 - Myristic acid	<b>0,01</b>	±0,01	%				07B-C	0,03 <sup>(1)</sup>		29/05/2017
C16:0 - Palmitic acid	<b>13,83</b>	±0,75	%				07B-C	7,50;20,00 <sup>(1)</sup>		29/05/2017
C16:1 - Palmitoleic acid	<b>1,33</b>	±0,10	%				07B-C	0,30;3,50 <sup>(1)</sup>		29/05/2017
C17:0 - Heptadecanoic acid	<b>0,15</b>	±0,02	%				07B-C	0,40 <sup>(1)</sup>		29/05/2017
C17:1 - Heptadecenoic acid	<b>0,32</b>	±0,03	%				07B-C	0,60 <sup>(1)</sup>		29/05/2017
C18:0 - Stearic acid	<b>1,98</b>	±0,14	%				07B-C	0,50;5,00 <sup>(1)</sup>		29/05/2017
C18:1 - Oleic acid	<b>71,09</b>	±2,99	%				07B-C	55,00;83,00 <sup>(1)</sup>		29/05/2017
C18:2 - Linoleic acid	<b>9,70</b>	±0,55	%				07B-C	2,50;21,00 <sup>(1)</sup>		29/05/2017
C20:0 - Arachidic acid	<b>0,41</b>	±0,04	%				07B-C	0,60 <sup>(1)</sup>		29/05/2017
C18:3 - Linolenic acid	<b>0,66</b>	±0,06	%				07B-C	1,00 <sup>(1)</sup>		29/05/2017
C20:1 - Eicosenoic acid	<b>0,32</b>	±0,03	%				07B-C	0,50 <sup>(1)</sup>		29/05/2017
C22:0 - Behenic acid	<b>0,13</b>	±0,01	%				07B-C	0,20 <sup>(1)</sup>		29/05/2017
C22:1 - Erucic acid	ND		%				07B-C			29/05/2017
C24:0 - Lignoceric acid	<b>0,07</b>	±0,01	%				07B-C	0,20 <sup>(1)</sup>		29/05/2017
<b>TRANS FATTY ACIDS CONTENT</b>										
C18:1 - (Elaidinic)	<b>0,02</b>	±0,01	%				07B-C	0,05 <sup>(1)</sup>		29/05/2017
C18:2 + C18:3	<b>0,01</b>	±0,01	%				07B-C	0,05 <sup>(1)</sup>		29/05/2017
<b>TRIGLYCERIDES WITH ECN42, in %</b>										
L.L.L.	<b>0,13</b>		%				09/1-C			29/05/2017
O.L.Ln	<b>0,29</b>		%				09/1-C			29/05/2017
P.L.Ln	<b>0,07</b>		%				09/1-C			29/05/2017
Sum ECN-42 HPLC	<b>0,49</b>		%				09/1-C			29/05/2017
Theoretical ECN-42	<b>0,52</b>		%				09/1-C			29/05/2017
Difference	<b>0,03</b>		%				09/1-C	0,2 <sup>(1)</sup>		29/05/2017
<b>STEROLS CONTENT</b>										
Cholesterol	<b>0,1</b>	±0,1	%			0,1	04/1-C	0,5 <sup>(1)</sup>		26/05/2017
Brassicasterol	ND		%			0,1	04/1-C	0,1 <sup>(1)</sup>		26/05/2017

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24-Methylenecholesterol	<b>0,3</b>	±0,1	%		0,1		04/1-C			26/05/2017
Campesterol	<b>3,7</b>	±0,1	%		0,1		04/1-C	4 <sup>(1)</sup>		26/05/2017
Campestanol	<b>0,1</b>	±0,1	%		0,1		04/1-C			26/05/2017
Stigmasterol	<b>0,7</b>	±0,1	%		0,1		04/1-C			26/05/2017
Delta-7-Campesterol	ND		%		0,1		04/1-C			26/05/2017
Delta-5,23-Stigmastadienol	ND		%		0,1		04/1-C			26/05/2017
Clerosterol	<b>1,0</b>	±0,1	%		0,1		04/1-C			26/05/2017
Betasitosterol	<b>80,6</b>	±1,0	%		0,1		04/1-C			26/05/2017
Sitostanol	<b>1,0</b>	±0,1	%		0,1		04/1-C			26/05/2017
Delta-5-Avenasterol	<b>10,9</b>	±0,1	%		0,1		04/1-C			26/05/2017
Delta-5,24-Stigmastadienol	<b>1,0</b>	±0,1	%		0,1		04/1-C			26/05/2017
Delta-7-Stigmastenol	<b>0,2</b>	±0,1	%		0,1		04/1-C	0,5 <sup>(1)</sup>		26/05/2017
Delta-7-Avenasterol	<b>0,4</b>	±0,2	%		0,1		04/1-C			26/05/2017
TOTAL BETASITOSTEROL	<b>94,5</b>	±0,3	%		0,1		04/1-C	≥93 <sup>(1)</sup>		26/05/2017
TOTAL STEROLS CONTENT	<b>1510</b>	±64	mg/kg		5		04/1-C	≥1000 <sup>(1)</sup>		26/05/2017
ERYTHRODIOL AND UVAOL	<b>3,2</b>	±0,6	%				05/1-C	4,5 <sup>(1)</sup>		26/05/2017
<b>WAXES (C42+C44+C46)</b>	<b>53,4</b>	±1,5	mg/kg				03B-C	150 <sup>(1)</sup>		26/05/2017
<b>STIGMASTADIENES</b>	< 0,01		mg/kg		0,01		14B-C	0,05 <sup>(1)</sup>		26/05/2017
<b>BIOPHENOLS</b>										
Total Polyphenols (as tyrosol)	<b>157</b>	±23	mg/kg		30		1020			31/05/2017
Hydroxy-tyrosol (3,4 DHPEA)	< 3		mg/kg		3		* 1020			31/05/2017
Tyrosol (p, HPEA)	< 3		mg/kg		3		* 1020			31/05/2017
Dialdehydic form of decarboxymethyl oleuropein aglycon (3,4 DHPEH-EDA)	<b>47</b>		mg/kg		3		* 1020			31/05/2017
Dialdehydic form of decarboxymethyl ligstroside aglycon (p, HPEA-EDA)	<b>15</b>		mg/kg		3		* 1020			31/05/2017
Lignans	<b>38</b>		mg/kg		3		* 1020			31/05/2017
Oleuropein aglycon (3,4 DHPEA-EA)	<b>11</b>		mg/kg		3		* 1020			31/05/2017
Ligstroside aglycon (p, HPEA-EA)	< 3		mg/kg		3		* 1020			31/05/2017

**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**
<sup>(1)</sup> 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**