

File # 311000690

MARCH 16, 2020

ANALYSIS REPORT

SUBMITTED BY: THE OLIVE & THE GRAPE, LLC  
DATE SUBMITTED: MARCH 3, 2020  
DATE SAMPLE ANALYZED: MARCH 3, 2020 – MARCH 16, 2020  
COMMODITY AS DESCRIBED: TUNISIAN BLEND  
SAMPLE(S) MARKED: 111-23

Lab Reference: LA20-00130.002

METHOD	TEST	RESULTS	TEST	RESULTS
AOCS Ca 5a-40	Free Fatty Acid, wt. % as oleic	0.16	Sterols, % of Total, (AOCS Ch 6-91)	
AOCS Cd 8-53	Peroxide Value	12.30	Cholesterol	0.1
AOCS Ch 5-91	Specific Extinction @ 270nm	0.135	24 Methylene-Cholesterol	0.2
COI/T-20/#20	ECN 42, Difference	0.02	Brassicasterol	<0.1
			Campesterol	3.0
AOCS Ch 2-91	Fatty Acid Profile, %		Campestanol	<0.1
	C14	<0.03	Stigmasterol	0.5
	C16	8.0	D-7 Campesterol	<0.1
	C16:1	0.6	D-5,23 Stigmastadienol	<0.1
	C17	0.1	Clerosterol	0.8
	C17:1	0.2	B-Sitosterol	85.3
	C18	3.3	Sitostanol	0.6
	C18:1	78.9	D5-Avenasterol	8.2
	C18:2	7.5	D5,24 Stigmasterol	0.3
	C20	0.4	D7-Stigmasterol	0.4
	C18:3	0.7	D7-Avenasterol	0.5
	C20:1	0.4	Diols (U+E), % of total	1.9
	C22	0.1	Apparent B-Sitosterol	95.2
	Others	<0.1	Total Sterols, ppm	1375
	18.1 Trans	<0.05	Other Sterols	<0.1
	18.2 + 18.3 Trans	<0.05		
	Total Trans fatty Acids	<0.05		

Based on and limited to the above tests, this oil **DOES** appear to be consistent with the grade of **Tunisian Blend**, as set forth by IOC Trade Standards (COI/T.15/NC no. 3/Rev. 12; June 2018). This is strictly due to the level of Diols, which has a maximum allowable value of 4.0%.

Above results are based upon sample submitted to SGS Agricultural Services, St. Rose, LA, and/ or an Affiliate Lab\*\*\* for analysis. Any sample identification is reported as submitted and is not verified by SGS Agricultural Services as a representative sample. Sample will be retained for a period of 90 days. Samples were not drawn by or under the observation of SGS North America. Marks or references are as submitted.

SGS is a member of **AOCS**, **FOSFA**, and **GAFTA** and utilizes validated methods for analysis.

This certificate reflects our findings at time and place of our intervention only and does not relieve the parties from their contractual responsibilities.

For and on the behalf of:  
SGS North America Inc.



Betty J. Paulose, SGS Agricultural Service

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