



**TÜBİTAK**

BUTAL

**TÜBİTAK**

**BURSA TEST AND ANALYSIS LABORATORY**



AB-0494-T
GT20250096
03-25

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## TEST REPORT

**Customer Name/Address :** ATA KORKUSUZ - ÖZGE VARGEL BÖLÜKBAŞI / Finike Sk 28, Konutkent 2 Sitesi, / Çayyolu / ANKARA

**T/F:** (506) 735-35-06/ /

**Order Date/No :** 19/03/2025

**Sample Description :** Olive Oil

**Sample Receipt Date :** 24/03/2025

**Sample Delivered by:** Cargo Delivery

**Number of Pages:** 3

**Remarks :** Sampling and identification of the sample was done by the customer.

\*TÜBİTAK Bursa Test and Analysis Laboratory accredited by TÜRKAK under registration number AB-0494-T for General Requirements for the Competence of Testing and Calibration Laboratories TS EN ISO/IEC 17025 as test laboratory.

\*Test results, methods measurement uncertainty (if applicable, given in 95% confidence interval) and other information are given on the following pages which are part of this report.

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\*In case of sampling by customer the results in this report refer only to samples tested

\*In case of sampling by customer, the sampling uncertainty were not included to the uncertainty budget.

\*Test marked with (A) refers the test within the scope of TS EN ISO / IEC 17025 accreditation and marked with (D) refers the test provided by external sources.

\*Testing reports without e-signature are not valid.

Turkish Accreditation Agency (TÜRKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

Date  
26/03/2025

*e-signature*

YİĞİT ŞAHİN

Person in Charge of Laboratories

*e-signature*

SEDAT AKTAŞ

Director

This document has been signed by e-signature.

The document can be verified via the link " <https://butalonline.tubitak.gov.tr/butalOnline> " using the code "HW335611:9'03Q"

BTA-P003-F003/Rev.05, 05/01/2023

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**Test Date** : 24-26.03.2025

**Sample Identification** : Olive Oil

Parameters	Unit	Test Method	Test Result Mean $\pm$ ss	Limit Value <sup>2</sup>	Conformity <sup>3</sup>
				Extra Virgin Oil	
Free Acidity (as oleic acid) <sup>1</sup>	%	(A) TS EN ISO 660	0.49 $\pm$ 0.01	$\leq$ 0.8	Pass
Total Polyphenol (in terms of Tyrosol equivalent)	mg/kg	COI/T.20/Doc.No29	218 $\pm$ 2	-	-

<sup>1</sup>) Test standart deviation is given as  $U(k=2)$  measurement uncertainty.

<sup>2</sup>) Limit values are taken from Turkish Food Codex Communiqué on Olive Oil and Olive Pomace Oil  
(Communiqué No: 2017/26)

<sup>3</sup>) While choosing the decision rule used in conformity assessment, "Guideline on declaration of conformity to ILAC G8 Specification" was taken as reference. The declaration of conformity is based on a 95% coverage probability for the expanded uncertainty of measurement results.

Test Date : 24-26.03.2025

Sample Identification : Olive Oil

Parameters	Unit	Test Result Mean $\pm$ u(k=2)	Test Method	Limit Value <sup>1</sup> Extra Virgin Oil	Conformity <sup>2</sup>
Butyric Acid (C4:0)	%	<0.38	(A)TS EN ISO 12966-2		
Caproic Acid (C6:0)	%	<0.06			
Caprylic Acid (C8:0)	%	<0.05			
Capric Acid (C10:0)	%	<0.05			
Undecanoic Acid (C11:0)	%	<0.05			
Lauric Acid (C12:0)	%	<0.07			
Tridecanoic Acid (C13:0)	%	<0.11			
Myristic Acid (C14:0)	%	<0.03		<0.03	Pass
Myristoleic Acid (C14:1)	%	<0.05			
Pentadecanoic Acid (C15:0)	%	<0.05			
Pentadecenoic Acid C15:1	%	<0.05			
Palmitic Acid (C16:0)	%	12.0 $\pm$ 1.0		7.5-20	Pass
Palmitoleic Acid (C16:1)	%	1.13 $\pm$ 0.01		0.3-3.5	Pass
Margaric Acid (C17:0)	%	0.05 $\pm$ 0.01		$\leq$ 0.4	Pass
Heptadecenoic Acid (C17:1)	%	0.08 $\pm$ 0.01		$\leq$ 0.6	Pass
Stearic Acid (C18:0)	%	2.89 $\pm$ 0.22		0.5-5.0	Pass
trans Elaidic Acid (C18:1t)	%	<0.05	(A)TS EN ISO 12966-4		
Oleic Acid (C18:1c)	%	70.3 $\pm$ 5.3		55.0-83.0	Pass
trans Linolelaidic Acid (C18:2t)	%	<0.05			
Linoleic Acid (C18:2c)	%	10.9 $\pm$ 0.8		2.5-21.0	Pass
trans Linolenic Acid (C18:3t)	%	<0.05			
$\gamma$ Linolenic Acid (C18:3n6)	%	<0.05			
Arachidic Acid (C20:0)	%	0.47 $\pm$ 0.01		$\leq$ 0.6	Pass
$\alpha$ -Linolenic Acid (C18:3n3)	%	0.95 $\pm$ 0.01		$\leq$ 1.0	Pass
Eicosenoic (C20:1)	%	0.36 $\pm$ 0.01		$\leq$ 0.5	Pass
Henicosanoic Acid (C21:0)	%	<0.05			
Eicosadienoic Acid (C20:2)	%	<0.05			
Eicosatrienoic Acid (C20:3n6)	%	<0.05			
Behenic Acid (C22:0)	%	0.13 $\pm$ 0.01		$\leq$ 0.2	Pass
Eikosatrienoic Acid (C20:3n3)	%	<0.05			
Erucic Acid (C22:1)	%	<0.05			
Arachidonic Acid (C20:4)	%	<0.05			
Tricosanoic Acid C23:0	%	<0.05			
Docosadienoic Acid (C22:2)	%	0.57 $\pm$ 0.01			
Eicosapentaenoic Acid (C20:5)	%	<0.05			
Lignoceric Acid (C24:0)	%	0.06 $\pm$ 0.01		$\leq$ 0.2	Pass
Nervonic Acid (C24:1)	%	<0.05			
Dokocahexaenoic Acid (C22:6)	%	<0.08			
Saturate Fatty Acids	%	15.6 $\pm$ 2.5			
Mono-unsaturate Fatty Acids	%	71.9 $\pm$ 2.2			
Poly-unsaturate Fatty Acids	%	12.5 $\pm$ 0.7			

<sup>1)</sup> Limit values are taken from Turkish Food Codex Communiqué on Olive Oil and Olive Pomace Oil (Communiqué No: 2017/26)

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