

**ANALYTICAL REPORT Nº: 642.00/22/LET**

The results refer exclusively to the sample tested under the conditions in which it was received

Information provided by the customer and of its responsibility	<b>Customer:</b> DULFAR, SOCIEDADE OLEICOLA, LDA	<b>Tel:</b> 256 378 557
	<b>Address:</b> RUA JORNAL CORREIO DA FEIRA N.º5 - 1 ºESQ - 4520 - 234 SANTA MARIA FEIRA	
	<b>Sample:</b> Extra Virgin Olive Oil	<b>Sampling is the customer's responsibility</b> (The sampling is not included in the scope of accreditation)
	<b>Sample's reference:</b> Dulfar - Lote 2202-biológico-organic - Depósito: 2 - Data de colheita da amostra: 31/01/2022	
<b>Other information:</b>		
<b>State of the sample:</b> Suitable		<b>Full bottle?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Received by:</b> 01/02/2022 – 15:20	<b>Beginning of the analysis:</b> 02/02/2022	<b>Conclusion of the analysis:</b> 04/02/2022

Analysis	Method	Limits	Results	Date
<b>Determination of Free Fatty Acids, Cold method - Volumetric analysis (% Oleic acid)</b>	Regulation (EEC) n° 2568/91, Annex II and Implementing Regulation (EU) 2016/1227	≤ 0,80 <sup>1)</sup>	<b>0,12 ± 0,01</b>	<b>03/02/2022</b>
<b>Determination of Peroxide Index - Volumetric analysis (meq O<sub>2</sub>/Kg)</b>	Regulation (EEC) n° 2568/91, Annex III and Implementing Regulation (EU) 2016/1784	≤ 20,0 <sup>1)</sup>	<b>4,5 ± 1,0</b>	<b>03/02/2022</b>
<b>Determination of Fatty Acids Methyl Esters (%)</b>	Regulation (EEC) n° 2568/91, Annex X and Implementing Regulation (UE) 2015/1833	≤ 0,03 <sup>1)</sup>	<b>&lt;0,013 (LQ)</b>	<b>04/02/2022</b>
		7,50 – 20,00 <sup>1)</sup>	<b>10,88 ± 0,52</b>	
		0,30 – 3,50 <sup>1)</sup>	<b>0,68 ± 0,10</b>	
		≤ 0,40 <sup>1)</sup>	<b>0,07 ± 0,01</b>	
		≤ 0,60 <sup>1)</sup>	<b>0,11 ± 0,02</b>	
		0,50 – 5,00 <sup>1)</sup>	<b>2,44 ± 0,34</b>	
		55,00 – 83,00 <sup>1)</sup>	<b>76,28 ± 3,66</b>	
		2,50 – 21,00 <sup>1)</sup>	<b>8,08 ± 1,26</b>	
		≤ 1,00 <sup>1)</sup>	<b>0,77 ± 0,08</b>	
		≤ 0,60 <sup>1)</sup>	<b>0,33 ± 0,04</b>	
		≤ 0,50 <sup>1)</sup>	<b>0,23 ± 0,03</b>	
		≤ 0,20 <sup>1)</sup>	<b>0,09 ± 0,03</b>	
		–	<b>&lt;0,012 (LQ)</b>	
		≤ 0,20 <sup>1)</sup>	<b>0,03 ± 0,01</b>	
		≤ 0,05 <sup>1)</sup>	<b>&lt;0,029 (LQ)</b>	
≤ 0,05 <sup>1)</sup>	<b>&lt;0,029 (LQ)</b>			

\* Analysis not included in the scope of accreditation of the *Laboratório de Estudos Técnicos*;

\*\* Testing service provided by an Accredited laboratory;

\*\*\* Testing service provided by a Non-Accredited laboratory;

\*\*\*\* Equivalent internal method is one that has the same application area and that fulfils the performance characteristics, obtaining results comparable to the standard method indicated;

LOQ – Limit of Quantification;

1) Regulation (EEC) n° 2568/91 and subsequent amendments;

2) NP 972:1989;

3) Regulation (EEC) n° 835/2011 and subsequent amendments;

4) Decree n°1135/95;

5) *Codex Stan* 33-1981;

6) Decree n° 1198/1991;

7) Regulation (UE) 2019/1870 from 7th of November 2019;

8) Diário da República 1ª série – N° 191 - Decree n° 103 from 4th of October 2011.

The reported uncertainty is an expanded uncertainty calculated using a coverage factor K = 2, which gives a level of confidence of approximately 95%.

The tests were carried out in the laboratory permanent facilities.

The reissue of test reports MUST be limited to the correction of errors and the inclusion of missing data available at the time of the test.

The test report shall not be reproduced, except in full, without a written authorization from the laboratory.

ANALYTICAL REPORT Nº: **642.00/22/LET**

The results refer exclusively to the sample tested under the conditions in which it was received

Analysis		Method	Limits	Results	Date
Determination of the content of Waxes, Fatty Acid Methyl Esters and Fatty Acid Ethyl Esters (FAEE) (mg/kg) *		Annex XX <sup>1)</sup>	$C_{42}+C_{44}+C_{46} \leq 150$ <sup>1)</sup>	<b>46,4</b>	<b>04/02/2022</b>
			FAEE $\leq 35$ <sup>1)</sup>	<b>5</b>	
Organoleptic Characteristics *	Median Fruity (Mf) and Median defect (Md)	Annex XII <sup>1)</sup>	Mf > 0,0 and Md = 0,0 <sup>1)</sup>	<b>Extra Virgin</b>	<b>02/02/2022</b>
	Median Fruity (Mf)		Mf > 0,0 <sup>1)</sup>	<b>4,5 (Ripe)</b>	
	Median Bitter		–	<b>3,2</b>	
	Median Pungent		–	<b>2,7</b>	
	Median Defect (Md)		Md = 0,0 <sup>1)</sup>	<b>0,0</b>	
	Defect		–	<b>–</b>	
Spectrophotometric investigation in the Ultraviolet	K232	Regulation (EEC) n° 2568/91, Annex IX and Implementing Regulation (EU) 2015/1833	$\leq 2,50$ <sup>1)</sup>	<b>1,66 ± 0,14</b>	<b>03/02/2022</b>
	K268		$\leq 0,22$ <sup>1)</sup>	<b>0,13 ± 0,01</b>	
	K270 *		$\leq 0,22$ <sup>1)</sup>	<b>0,13 ± 0,01</b>	
	ΔK		$\leq 0,01$ <sup>1)</sup>	<b>0,00 ± 0,00</b>	


**Observations** (Outside the scope of accreditation for non-accredit tests):

**According to the presented specifications and for the tests performed, the sample presents characteristics of Extra Virgin Olive Oil.**

Report issued by:

Technical Supervisor

Date: **07/02/2022** Hour: **09:45**



(Paula Vasconcelos)

\* Analysis not included in the scope of accreditation of the *Laboratório de Estudos Técnicos*;

\*\* Testing service provided by an Accredited laboratory;

\*\*\* Testing service provided by a Non-Accredited laboratory;

\*\*\*\* Equivalent internal method is one that has the same application area and that fulfils the performance characteristics, obtaining results comparable to the standard method indicated;

LOQ – Limit of Quantification;

1) Regulation (EEC) n° 2568/91 and subsequent amendments;

2) NP 972:1989;

3) Regulation (EEC) n° 835/2011 and subsequent amendments;

4) Decree n°1135/95;

5) *Codex Stan* 33-1981;

6) Decree n° 1198/1991;

7) Regulation (UE) 2019/1870 from 7th of November 2019;

8) Diário da República 1ª série – N° 191 - Decree n° 103 from 4th of October 2011.

The reported uncertainty is an expanded uncertainty calculated using a coverage factor K = 2, which gives a level of confidence of approximately 95%.

The tests were carried out in the laboratory permanent facilities.

The reissue of test reports MUST be limited to the correction of errors and the inclusion of missing data available at the time of the test.

The test report shall not be reproduced, except in full, without a written authorization from the laboratory.