

ANALYTICAL REPORT Nº: 871.00/22/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	Customer: KIWA SATIVA UNIPESSOAL LDA	Tel: 217991100	
	Address: RUA ROBALO GOUVEIA Nº 1 - 1º A, 1900 - 392 LISBOA		
	Sample: Extra Virgin Olive Oil	Sampling is the customer's responsibility (The sampling is not included in the scope of accreditation)	
	Sample's reference: 270DOP03OAD22 - Data de colheita da amostra: 2022/02/07		
	Other information:		
State of the sample: Suitable		Full bottle? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Received by: 10/02/2022 – 15:10	Beginning of the analysis: 11/02/2022	Conclusion of the analysis: 25/02/2022	

Analysis	Method	Limits	Results	Date
Determination of Free Fatty Acids, Cold method - Volumetric analysis (% Oleic acid)	Regulation (EEC) n° 2568/91, Annex II and Implementing Regulation (EU) 2016/1227	≤ 0,80 ¹⁾	0,12 ± 0,01	16/02/2022
Determination of Peroxide Index - Volumetric analysis (meq O ₂ /Kg)	Regulation (EEC) n° 2568/91, Annex III and Implementing Regulation (EU) 2016/1784	≤ 20,0 ¹⁾	6,5 ± 1,5	16/02/2022
Determination of the Composition of Sterols and Triterpenes Dialcohols (%)	**** PTME004_01 (Internal Procedure) Equivalent to Regulation (EEC) n° 2568/91, Annex XIX and Implementing Regulation (UE) 2019/1604	≤ 0,5 ¹⁾	0,1 ± 0,1	21/02/2022
		≤ 0,1 ¹⁾	<0,03 (LQ)	
		≤ 4,0 ¹⁾	2,3 ± 0,3	
		<Campesterol ¹⁾	0,5 ± 0,1	
		≥ 93,0 ¹⁾	96,3 ± 0,8	
		≤ 0,5 ¹⁾	0,1 ± 0,1	
Total Sterols (mg/Kg)		≥ 1000 ¹⁾	1310 ± 66	
Erythrodiol + Uvaol (%)		≤ 4,5 ¹⁾	1,5 ± 0,4	

* 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.

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Analysis		Method	Limits	Results	Date
Determination of Fatty Acids Methyl Esters (%) * and **	C14:0	Regulation (EEC) nº 2568/91, Annex X and your changes	≤ 0,03 ¹⁾	<0,013 (LQ)	24/02/2022
	C16:0		7,50 – 20,00 ¹⁾	10,58 ± 0,51	
	C16:1		0,30 – 3,50 ¹⁾	0,66 ± 0,09	
	C17:0		≤ 0,40 ¹⁾	0,13 ± 0,02	
	C17:1		≤ 0,60 ¹⁾	0,22 ± 0,04	
	C18:0		0,50 – 5,00 ¹⁾	3,09 ± 0,43	
	C18:1		55,00 – 83,00 ¹⁾	75,54 ± 3,63	
	C18:2		2,50 – 21,00 ¹⁾	8,28 ± 1,32	
	C18:3		≤ 1,00 ¹⁾	0,72 ± 0,08	
	C20:0		≤ 0,60 ¹⁾	0,38 ± 0,05	
	C20:1		≤ 0,50 ¹⁾	0,23 ± 0,03	
	C22:0		≤ 0,20 ¹⁾	0,11 ± 0,03	
	C22:1		–	<0,012 (LQ)	
	C24:0		≤ 0,20 ¹⁾	0,05 ± 0,02	
	C18:1 Trans		≤ 0,05 ¹⁾	<0,029 (LQ)	
C18:2 e C18:3 Trans	≤ 0,05 ¹⁾	<0,029 (LQ)			
Organoleptic Characteristics *	Median Fruity (Mf) and Median defect (Md)	Annex XII ¹⁾	Mf > 0,0 and Md = 0,0 ¹⁾	Extra Virgin Classification: 7,50	11/02/2022
	Median Fruity (Mf)		Mf > 0,0 ¹⁾	4,5 (Ripe)	
	Median Bitter		–	3,0	
	Median Pungent		–	2,9	
	Median Defect (Md)		Md = 0,0 ¹⁾	0,0	
	Defect		–	–	
Spectrophotometric investigation in the Ultraviolet	K232	Regulation (EEC) nº 2568/91, Annex IX and Implementing Regulation (EU) 2015/1833	≤ 2,50 ¹⁾	1,58 ± 0,13	16/02/2022
	K268		≤ 0,22 ¹⁾	0,11 ± 0,01	
	K270 *		≤ 0,22 ¹⁾	0,11 ± 0,01	
	ΔK		≤ 0,01 ¹⁾	0,00 ± 0,00	
Total Polyphenols (ppm caffeic acid) *		IT065 (Internal Procedure)	–	405,4	24/02/2022

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Triglycerides (%) *	LLL	Annex XVIII ¹⁾	-	0,1	25/02/2022
	OLLn		-	0,2	
	PLLn		-	0,1	
	OLL		-	2,7	
	PLL		-	0,5	
	POLn		-	0,4	
	POL		-	4,1	
	PPL		-	0,2	
	OOO		-	46,8	
	POO		-	20,2	
	PPO		-	1,7	
	StOO		-	5,5	
	PSiO		-	0,9	
	PPSt		-	0,8	

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: 28/02/2022 Hour: 11:10



(Paula Vasconcelos)

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