

ANALYSIS REPORT

Report / Sample: A / 202204452

Reception date: 11/05/2022 Start Date Analysis: 11/05/2022
Date Issue Report: 18/05/2022 Final Date Analysis: 18/05/2022

Applicant:



Analyzed according to: EXTRA VIRGIN OLIVE OIL

Container's Type: 500 ml unpacked pet

Ref. sample COOPOR LOTE 2 21/22

(information provided by the customer)

Description: Oil in closed container, not sealed

COOPOR COOP. AGRICOLA CONCELHO DE PORTALEGRE
JOENAL ZONA INDUSTRIAL ATDO. 12
7301-901 Portalegre (Portalegre)
Portugal

Analytical Results

Testing	Applicant	Units	Limits	Analytical technique	Testing method
Organoleptic Test					
Median of defect	0,0			Sensory analysis	R.EEC 2568/91 ANNEX XII and alterations later
Median fruity attribute	3,7			Sensory analysis	R.EEC 2568/91 ANNEX XII and alterations later
Classification panel test	Extra Virgin Olive Oil			Sensory analysis	R.EEC 2568/91 ANNEX XII and alterations later
Acidity (Cold method)	0,30 ±0,03	% oleic acid	≤ 0,80	Volumetry	R.EEC 2568/91 ANNEX II and alterations later
Peroxide Index	8,0 ±1,4	meq O ₂ /Kg	≤ 20,0	Volumetry	R.EEC 2568/91 ANNEX III and alterations later
Ultraviolet coefficients					
K232	1,75 ±0,21		≤ 2,50	Spectrophotometry	R.EEC 2568/91 ANNEX IX and alterations later
K270	0,13 ±0,02		≤ 0,22	Spectrophotometry	R.EEC 2568/91 ANNEX IX and alterations later
Delta-K	0,00 ±0,00		≤ 0,01	Spectrophotometry	R.EEC 2568/91 ANNEX IX and alterations later
Metylics Esteres of Fatty Acids					
Myristic Acid (C14:0)	0,01 ±0,01	%	≤ 0,03	Gas chromatography	R.EEC 2568/91 ANNEX X and alterations later
Palmitic acid (C16: 0)	15,11 ±0,60	%	7,50 - 20,00	Gas chromatography	R.EEC 2568/91 ANNEX X and alterations later
Palmitoleic acid (C16: 1)	1,65 ±0,12	%	0,30 - 3,50	Gas chromatography	R.EEC 2568/91 ANNEX X and alterations later
Heptadecanoic acid (C17:0)	0,13 ±0,03	%	≤ 0,40	Gas chromatography	R.EEC 2568/91 ANNEX X and alterations later
Heptadecenocic acid (C17:1)	0,31 ±0,03	%	≤ 0,60	Gas chromatography	R.EEC 2568/91 ANNEX X and alterations later
Stearic Acid (C18:0)	1,95 ±0,08	%	0,50 - 5,00	Gas chromatography	R.EEC 2568/91 ANNEX X and alterations later
Oleic acid (C18:1) with isomers	70,74 ±0,58	%	55,00 - 83,00	Gas chromatography	R.EEC 2568/91 ANNEX X and alterations later
Linoleic acid (C18:2) with isomers	8,43 ±0,25	%	2,50 - 21,00	Gas chromatography	R.EEC 2568/91 ANNEX X and alterations later
Linolenic acid (C18:3) with isomers	0,71 ±0,06	%	≤ 1,00	Gas chromatography	R.EEC 2568/91 ANNEX X and alterations later
Arachidic acid (C20:0)	0,41 ±0,04	%	≤ 0,60	Gas chromatography	R.EEC 2568/91 ANNEX X and alterations later
Gadoleic Acid (C20:1)	0,30 ±0,02	%	≤ 0,50	Gas chromatography	R.EEC 2568/91 ANNEX X and alterations later
Behenic Acid (C22:0)	0,16 ±0,03	%	≤ 0,20	Gas chromatography	R.EEC 2568/91 ANNEX X and alterations later

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Lignoceric acid (C24:0)	0,07 ±0,02	%	≤ 0,20	Gas chromatography	R.EEC 2568/91 ANNEX X and alterations later
Sum of the transoleic isomers	< 0,02	%	≤ 0,05	Gas chromatography	R.EEC 2568/91 ANNEX X and alterations later
Sum of translinoleic + translinolenic isomers	< 0,02	%	≤ 0,05	Gas chromatography	R.EEC 2568/91 ANNEX X and alterations later
Moisture and volatile matter (method B)	0,08 ±0,03	%		Gravimetry	UNE- EN ISO 662:2016
Impurities insoluble in N-hexane	< 0,10	%		Gravimetry	UNE- EN ISO 663:2017
Sterols Composition					
Cholesterol	< 0,1	%	≤ 0,5	Gas chromatography	R.EEC 2568/91 ANNEX XIX and alterations later
Brassicasterol	< 0,1	%	≤ 0,1	Gas chromatography	R.EEC 2568/91 ANNEX XIX and alterations later
Campesterol	3,6 ±0,1	%	≤ 4,0	Gas chromatography	R.EEC 2568/91 ANNEX XIX and alterations later
Stigmasterol	0,85 ±0,04	%	<Campesterol	Gas chromatography	R.EEC 2568/91 ANNEX XIX and alterations later
{beta}-Sitosterol apparent	94,6 ±1,9	%	≥ 93,0	Gas chromatography	R.EEC 2568/91 ANNEX XIX and alterations later
Delta-7-Stigmasterol	< 0,2	%	≤ 0,5	Gas chromatography	R.EEC 2568/91 ANNEX XIX and alterations later
Total Sterols	1.951 ±176	mg/Kg	≥ 1.000	Gas chromatography	R.EEC 2568/91 ANNEX XIX and alterations later
Erythrodiol +I Uvaol	2,7 ±0,4	%	≤ 4,5	Gas chromatography	R.EEC 2568/91 ANNEX XIX and alterations later
Waxes	39 ±7	mg/Kg	≤ 150	Gas chromatography	R.EEC 2568/91 ANNEX XX and alterations later
Ethyl Esters	13 ±3	mg/Kg	≤ 35	Gas chromatography	R.EEC 2568/91 ANNEX XX and alterations later
ΔEcn42					
Real content	0,50			Liquid Chromatography	R.EEC 2568/91 ANNEX XVIII and alterations later
Theoretical content	0,44			Gas chromatography	R.EEC 2568/91 ANNEX XVIII and alterations later
Difference between the HPLC and theoretical content of triglycerides	0,06 ±0,02		≤ 0,20	Gas and liquid chromatography	R.EEC 2568/91 ANNEX XVIII and alterations later
Stigmastadienes	< 0,01	mg/Kg	≤ 0,05	Gas chromatography	R.EEC 2568/91 ANNEX XVII and alterations later
Monopalmitate 2-glyceryl	0,6 ±0,1	%	≤0,9 if the % total palmitic acid is ≤14,00 % ≤1,0 if the % total palmitic acid is >14 %	Gas chromatography	R.EEC 2568/91 ANNEX VII and alterations later
(*) Biophenols	423,90	mg/Kg		Liquid Chromatography	COI/T.20/DOC. N° 29

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These results only correspond to the sample analyzed.

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The estimated uncertainty, in quantitative methods, is found next to the result of the signed test $\pm$, for a confidence level of 95% ($k = 2$), expressed in absolute value. If it is not indicated in the report, it is estimated and available to the client who requests it.

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P.I. = Internal procedure.

The description showing at the head of the page 1 of this report refers to the visual description that the laboratory makes of the sample received, for which it is responsible.

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The analysis results are expressed uncorrected.

Limits are established according Annex I Commission Regulation (EEC) No 2568/91 of 11 July and subsequent modifications, Royal Decree 308/1983 of 25 January and subsequent modifications, Commission Regulation (EC) No 333/2007 of 28 March and subsequent modifications, Commission Regulation (EC) No 1881/2006 of 19 December and subsequent modifications and COI/T.15/NC No 3.

Click on this text to check the Maximum Residue Limits of pesticides according to European legislation.

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Document digitally signed by
María Teresa Mancera García