

## **CERTIFICATE OF ANALYSIS no: P-121277**

**Date of issue:** 23/1/2025

**CUSTOMER:** SUN GROVE FOODS INC

**PHONE :** 28210-33302

**MULTICHROM.LAB CODE No :** P-121277

**Date of analysis (from):** 20/1/2025

**COMMODITY ACCORDING TO**

**(to):** 23/1/2025

**CUSTOMER:** EXTRA VIRGIN OLIVE OIL

**RECEIVING DATE:** 20/1/2025

**SAMPLE CONDITION:** NORMAL

**SEALS:** None

**SAMPLING BY:** CUSTOMER

**DATA:** SAMPLE HOUSE BLEND

## **RESULTS**

Determination	LoD	LoQ	Method	Unit	Result	Limit <sup>1</sup>
Free fatty acid content (as oleic acid)			COI/T.20/DOC. 34/Rev. 1 – 2017	%	0,49	≤ 0,80
K Coefficients			COI/T.20/DOC.19/Rev. 5/2019	-	-	-
K268				-	0,168	≤ 0,22
K232				-	1,897	≤ 2,50
DK				-	-0,001	≤ 0,01
Peroxide Value			COI/T.20/DOC.35/Rev. 1/2017	meqO <sub>2</sub> /kg	9,7	≤20,0
Total Halogenated Volatile Solvents	0,01		2568/91 <sup>a</sup>	mg/kg	<0,01	≤ 0,2
ΔECN42			COI/T.20/Doc.No.20/Rev.4/2017 as in force	-	0,13	≤ 0,20
Stigmastadienes	0,01		COI/T.20/Doc. No 16/Rev. 2 2017 <sup>a</sup>	mg/kg	0,03	≤ 0,05
1,2-Diglycerides (Dag's)			COI/T.20/Doc. No 32 2013 <sup>a</sup>	%	66	-
Biophenols (as tyrosol)			COI/T.20/Doc. No 29/ Rev 1 2017 <sup>a</sup>	mg/kg	282	-
Hydroxytyrosol (3,4 DHPEA)					11	-
Tyrosol (p-HPEA)					7	-
Dialdehydic form of Decarboxymethyl Oleuropein aglicon (3,4 DHPEA-EDA or oleacin)					53	-
Dialdehydic form of Decarboxymethyl ligstroside aglicon (p, HPEA-EDA or oleocanthal)					57	-
Lignans					34	-

<sup>a</sup> Method outside the scope of accreditation.<sup>d</sup> Compound outside the scope of accreditation.

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Oleuropein aglycon (dialdehyde, oxidized and not aldehyde & hydroxylic forms)					69	-
Ligstroside aglycon (dialdehyde, oxidized and not aldehyde & hydroxylic forms)					24	-
Hydroxytyrosol ant its derivatives for health claim Regulation EU 432/2012				mg/20g	4,4	≥ 5
Pyropheophytins (of total Pheophytins) (PPP)		0,1	ISO 29841:2009 <sup>a</sup>	%	0.5	-
Ethylesters of Fatty Acids	1	2	COI/T.20/Doc. 28 - 2009	mg/kg	5	≤ 35
Fatty Acid Composition			COI/T.20/DOC. 33/Rev. 1 – 2017	%	-	-
C14:0 (Myristic)					0,01	≤ 0,03
C16:0 (Palmitic)					9,11	7,00-20,00
C16:1 (Palmitoleic)					0,85	0,30-3,50
C17:0 (Heptadecanoic)					0,04	≤ 0,40
C17:1 (Heptadecenoic)					0,06	≤ 0,60
C18:0 (Stearic)					3,18	0,50-5,00
C18:1 (Oleic) (ω9)					72,69	55,00-85,00
C18:2 (Linoleic) (ω6)					7,39	2,50-21,00
C18:3 (Linolenic) (ω3)					0,69	≤ 1,00
C20:0 (Arachidic)					0,49	≤ 0,60
C20:1 (Eicosenoic)					0,28	≤ 0,50
C22:0 (Behenic)					0,14	≤ 0,20
C22:1 (Erucic) (ω9)					<0,01	-
C24:0 (Lignoceric)					0,07	≤ 0,20
trans C18:1					0,01	≤ 0,05

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trans C18:2 + trans C18:3					0,01	≤ 0,05
Sterols			COI/T.20/Doc.no.26/ Rev.5/2020 as in force	mg/kg	1332	≥ 1000
Cholesterol				%	0,3	≤ 0,5
Brassicasterol				%	<0,1	≤ 0,1
24-methylcholesterol				%	0,4	-
Campesterol (Camps.)				%	3,3	≤ 4,0
Campestanol				%	0,1	-
Stigmasterol				%	0,5	< Campes.
d7-campestanol				%	0,0	-
d5,23stigm/dienol				%	0,0	-
Clerosterol				%	1,0	-
B-sitosterol				%	73,3	-
Sitostanol				%	0,2	-
d5-avenasterol				%	19,2	-
d5,24-stigm/dienol				%	0,8	-
d7-stigmastenol				%	0,2	≤ 0,5
d7-avenasterol				%	0,5	-
Erythrodiol				%	2,4	-
Uvaol				%	0,1	-
Erythrodiol+uvaol				%	2,5	≤ 4,5
Total b-sitosterol				%	94,6	≥ 93,0
Waxes (C42+C44+C46)			COI/T.20/DOC.28/Re v.3/2022 as in force	mg/kg	29	≤ 150
Polycyclic Aromatic Hydrocarbons			Internal (GC/MS) <sup>a</sup>	µg/kg	-	-
Benzo(a)anthracene	0,2	0,5			<0.5	-
Chrysene	0,2	0,5			0.72	-

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