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PRIORAT NATUR S.L.
Pg Sort dels Capellans, 17
43730 - FALSET
TARRAGONA

Report N°: 60009

ANALYSIS CERTIFICATE

Sample Identification

Reception date:	04/11/2024	Initial date Analysis:	04/11/2024
Final date analysis:	12/11/2024	Issue report date:	12/11/2024
Sample N°:	60009		
Sample description:			

Information provided by the client:

Sample:	EXTRA VIRGIN OLIVE OIL
Reference:	AOVE 100% ARBEQUINA LOTE: NA06-1124

Determinations	Results	Procedure:	Method	Limit
Acidity	0,12 % Oleic Acid	REEC 2568/91 A-II in force	Volumetry	<=0,80
Peroxide Value	4,8 m.e.q. of O ₂ / kg oil	REEC 2568/91 A-III in force	Volumetry	<=20,0

Absorbency in ultra-violet

K270	0,19	REEC 2568/91 A-IX in force	UV Spectrophotometry	<=0,22
K232	1,74	REEC 2568/91 A-IX in force	UV Spectrophotometry	<=2,50
Delta-k	<0,01	REEC 2568/91 A-IX in force	UV Spectrophotometry	<=0,01

Fatty Acid Composition + Trans Isomers (Quantitative %)

Myristic Acid	0,01 %	REEC 2568/91 A-X in force	GC-FID	<=0,03
Palmitic Acid	15,70 %	REEC 2568/91 A-X in force	GC-FID	7,50-20,00
Palmitoleic Acid	2,03 %	REEC 2568/91 A-X in force	GC-FID	0,30-3,50
Heptadecanoic Acid	0,09 %	REEC 2568/91 A-X in force	GC-FID	<=0,40
Heptadecenoic Acid	0,22 %	REEC 2568/91 A-X in force	GC-FID	<=0,60
Stearic Acid	1,70 %	REEC 2568/91 A-X in force	GC-FID	0,50-5,00
Oleic Acid	65,68 %	REEC 2568/91 A-X in force	GC-FID	55,00-83,00
Linoleic Acid	13,19 %	REEC 2568/91 A-X in force	GC-FID	2,50-21,00
Arachidic Acid	0,37 %	REEC 2568/91 A-X in force	GC-FID	<=0,60
Linolenic Acid	0,56 %	REEC 2568/91 A-X in force	GC-FID	<=1,00
Eicosenoic Acid	0,27 %	REEC 2568/91 A-X in force	GC-FID	<=0,50

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Behenic Acid	0,12 %	REEC 2568/91 A-X in force	GC-FID	<=0,20
Lignoceric Acid	0,05 %	REEC 2568/91 A-X in force	GC-FID	<=0,20
Oleic Trans Isomers	0,01 %	REEC 2568/91 A-X in force	GC-FID	<=0,05
Linoleic and Linolenic Trans isomers	<0,01 %	REEC 2568/91 A-X in force	GC-FID	<=0,05

Halogenated Solvents

* Trichloroethylene	<0,01 mg/kg	PNT-RT-10	GC-ECD	<=0,1
* Bromodichloromethane	<0,01 mg/kg	PNT-RT-10	GC-ECD	<=0,1
* Dibromochloromethane	<0,01 mg/kg	PNT-RT-10	GC-ECD	<=0,1
* Perchloroethylene	<0,01 mg/kg	PNT-RT-10	GC-ECD	<=0,1
* Tribromomethane	<0,01 mg/kg	PNT-RT-10	GC-ECD	<=0,1
* Total Halogenated Solvents	<0,05 mg/kg	PNT-RT-10	GC-ECD	<=0,2

Sterol Composition+Total Sterol+ E+U

Cholesterol	0,1 %	REEC 2568/91 A-XIX in force	GC-FID	<=0,5
Brassicasterol	<0,1 %	REEC 2568/91 A-XIX in force	GC-FID	<=0,1
24-Methylenecholesterol	0,3 %	REEC 2568/91 A-XIX in force	GC-FID	
Campesterol	3,8 %	REEC 2568/91 A-XIX in force	GC-FID	<=4,0
Campestanol	0,1 %	REEC 2568/91 A-XIX in force	GC-FID	
Stigmasterol	0,9 %	REEC 2568/91 A-XIX in force	GC-FID	<Campesterol
Delta7-Campesterol	<0,1 %	REEC 2568/91 A-XIX in force	GC-FID	
Beta-sitosterol (apparent)	94,2 %	REEC 2568/91 A-XIX in force	GC-FID	>=93,0
Delta-7-Stigmastanol	0,2 %	REEC 2568/91 A-XIX in force	GC-FID	<=0,5
Delta-7-Avenasterol	0,4 %	REEC 2568/91 A-XIX in force	GC-FID	
Total Sterol	1.754 mg/kg	REEC 2568/91 A-XIX in force	GC-FID	>=1.000
Erythrodiol+Uvaol	1,5 %	REEC 2568/91 A-XIX in force	GC-FID	<=4,5

Difference:ECN42(HPLC)and ECN42(theoretical)	0,08 %	REEC 2568/91 A-XVIII in force	GC-FID & HPLC-RI	<=0,20
Stigmasta-3,5-diene	<0,01 mg/kg	REEC 2568/91 A-XVII in force	GC-FID	<=0,05
Wax Content (C42+C44+C46)	49 mg/kg	COI/T.20/DOC. n°31 in force	GC-FID	<=150
Fatty acid ethyl esters (FAEEs)	10 mg/kg	COI/T.20/DOC. n°31 in force	GC-FID	<=35
2-Glyceryl monopalmitate	0,6 %	RCEE 2568/91 A-VII vigente	GC-FID	<=1,0

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CONCLUSIONS

The analytical determinations done, comply with the current Legislation as an extra virgin olive oil.

LEGISLATION

Regulation (EEC) N° 2568/91 and amendments in force.

Technical Manager,
Anna Jané.

