



EUROPEAN
COMMISSION

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ANNEXES 1 to 2

ANNEXES

to the

Commission Delegated Regulation

amending Commission Delegated Regulation (EU) 2022/2104 supplementing Regulation (EU) No 1308/2013 of the European Parliament and of the Council as regards marketing standards for olive oil, and repealing Commission Regulation (EEC) No 2568/91 and Commission Implementing Regulation (EU) No 29/2012

ANNEX I

“B. Purity characteristics

Category	Fatty acid composition ⁽¹⁾						Total transoleic isomers (%)	Total trans- linoleic + trans- linolenic isomers (%)	Stigmasta - dienes (mg/kg) ⁽³⁾	ΔECN42	2-glyceril monopalmitate (%)
	Myrist ic (%)	Linolenic (%)	Arachidic (%)	Eicosenoic (%)	Behenic (%)	Lignoceric (%)					
1. Extra virgin olive oil	≤ 0.03	≤ 1.00 ⁽²⁾	≤ 0.60	≤ 0.50	≤ 0.20	≤ 0.20	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.20	≤ 0.9 if total palmitic acid % ≤ 14.00 %
											≤ 1.0 if total palmitic acid % > 14.00 %
2. Virgin olive oil	≤ 0.03	≤ 1.00 ⁽²⁾	≤ 0.60	≤ 0.50	≤ 0.20	≤ 0.20	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.20	≤ 0.9 if total palmitic acid % ≤ 14.00 %
											≤ 1.0 if total palmitic acid % > 14.00 %
3.Lampante olive oil	≤ 0.03	≤ 1.00	≤ 0.60	≤ 0.50	≤ 0.20	≤ 0.20	≤ 0.10	≤ 0.10	≤ 0.50	≤ 0.30	≤ 0.9 if total palmitic acid % ≤ 14.00 %
											≤ 1.1 if total palmitic acid % > 14.00 %
4. Refined olive oil	≤ 0.03	≤ 1.00	≤ 0.60	≤ 0.50	≤ 0.20	≤ 0.20	≤ 0.20	≤ 0.30	—	≤ 0.30	≤ 0.9 if total palmitic acid % ≤ 14.00 %

											≤ 1.1 if total palmitic acid% > 14.00%
5. Olive oil composed of refined olive oil and virgin olive oils	≤ 0.03	≤ 1.00	≤ 0.60	≤ 0.50	≤ 0.20	≤ 0.20	≤ 0.20	≤ 0.30	—	≤ 0.30	≤ 0.9 if total palmitic acid% ≤ 14.00% ≤ 1.0 if total palmitic acid% > 14.00%
6. Crude olive-pomace oil	≤ 0.03	≤ 1.00	≤ 0.60	≤ 0.50	≤ 0.30	≤ 0.20	≤ 0.20	≤ 0.10	—	≤ 0.60	≤ 1.4
7. Refined olive-pomace oil	≤ 0.03	≤ 1.00	≤ 0.60	≤ 0.50	≤ 0.30	≤ 0.20	≤ 0.40	≤ 0.35	—	≤ 0.50	≤ 1.4
8. Olive-pomace oil	≤ 0.03	≤ 1.00	≤ 0.60	≤ 0.50	≤ 0.30	≤ 0.20	≤ 0.40	≤ 0.35	—	≤ 0.50	≤ 1.2
(4) Other fatty acids content (%): palmitic: 7.00-20.00; palmitoleic: 0.30-3.50; heptadecanoic: ≤ 0.40; heptadecenoic ≤ 0.60; stearic: 0.50-5.00; oleic: 55.00- 85.00; linoleic: 2.50-21.00.											
(5) When the linolenic acid is more than 1.00 but less than or equal 1.40, the ratio apparent β-sitosterol/campesterol has to be greater than or equal to 24.											
(6) Total isomers which could (or could not) be separated by capillary column.											

Table B continued

Category	Sterols composition						Total sterols (mg/kg)	Erythrodiol and uvaol (%) ^(**)	Waxes (mg/kg) ^(**)
	Cholesterol (%)	Brassica-sterol (%)	Campesterol ⁽⁷⁾ (%)	Stigmasterol (%)	Apparent β -sitosterol ⁽⁸⁾ (%)	Δ -7-stigmasterol (%)			
1. Extra virgin olive oil	≤ 0.5	≤ 0.1	≤ 4.0 ⁽⁷⁾	< Camp.	≥ 93.0	≤ 0.5 ⁽⁹⁾	$\geq 1\ 000$	≤ 4.5	C42 + C44 + C46 ≤ 150
2. Virgin olive oil	≤ 0.5	≤ 0.1	≤ 4.0 ⁽⁷⁾	< Camp.	≥ 93.0	≤ 0.5 ⁽⁹⁾	$\geq 1\ 000$	≤ 4.5	C42 + C44 + C46 ≤ 150
3. Lampante olive oil	≤ 0.5	≤ 0.1	≤ 4.0	—	≥ 93.0	≤ 0.5 ⁽¹⁰⁾	$\geq 1\ 000$	≤ 4.5 ^(9 13)	C40 + C42 + C44 + C46 ≤ 300 ^(9 13)
4. Refined olive oil	≤ 0.5	≤ 0.1	≤ 4.0	< Camp.	≥ 93.0	≤ 0.5 ⁽¹¹⁾	$\geq 1\ 000$	≤ 4.5 ^(40 14)	C40 + C42 + C44 + C46 ≤ 350
5. Olive oil composed of refined olive oil and virgin olive oils	≤ 0.5	≤ 0.1	≤ 4.0	< Camp.	≥ 93.0	≤ 0.5 ⁽¹¹⁾	$\geq 1\ 000$	≤ 4.5	C40 + C42 + C44 + C46 ≤ 350
6. Crude olive-pomace oil	≤ 0.5	≤ 0.2	≤ 4.0	—	≥ 93.0	≤ 0.5 ⁽¹²⁾	$\geq 2\ 500$	> 4.5 ^(41 15)	C40 + C42 + C44 + C46 > 350 ^(41 15)
7. Refined olive-pomace oil	≤ 0.5	≤ 0.2	≤ 4.0	< Camp.	≥ 93.0	≤ 0.5 ⁽¹²⁾	$\geq 1\ 800$	> 4.5	C40 + C42 + C44 + C46 > 350
8. Olive-pomace oil	≤ 0.5	≤ 0.2	≤ 4.0	< Camp.	≥ 93.0	≤ 0.5 ⁽¹²⁾	$\geq 1\ 600$	> 4.5	C40 + C42 + C44 + C46 > 350

- (7) See appendix to this Annex. An extra virgin or virgin olive oil that exhibits $4.0 < \text{campesterol \%} \leq 4.5$ is authentic provided that $\text{stigmasterol} \leq 1.4\%$, $\Delta\text{-7-stigmastenol} \leq 0.3\%$ and all other parameters lie within the limits fixed in this regulation.
- (8) Apparent β -sitosterol: $\Delta\text{-5,23-stigmastadienol} + \text{clerosterol} + \beta\text{-sitosterol} + \text{sitostanol} + \Delta\text{-5-avenasterol} + \Delta\text{-5,24-stigmastadienol}$.
- (9) An extra virgin or virgin olive oil that exhibits $0.5 < \Delta\text{-7-stigmastenol \%} \leq 0.8$ is authentic provided that $\text{apparent } \beta\text{-sitosterol/campesterol} \geq 28$, $\Delta\text{ECN42} \leq 0.10$ and all other parameters lie within the limits fixed in this regulation.
- (10) A lampante olive oil that exhibits $0.5 < \Delta\text{-7-stigmastenol \%} \leq 0.8$ is authentic provided that $\text{apparent } \beta\text{-sitosterol/campesterol} \geq 28$, $\Delta\text{ECN42} \leq 0.15$, $\text{stigmastadiene} \leq 0.30$ and all other parameters lie within the limits fixed in this regulation.
- (11) A refined olive oil or olive oil composed of refined olive oil and virgin olive oils that exhibits $0.5 < \Delta\text{-7-stigmastenol \%} \leq 0.8$ is authentic provided that $\text{apparent } \beta\text{-sitosterol/campesterol} \geq 28$, $\Delta\text{ECN42} \leq 0.15$ and all other parameters lie within the limits fixed in this regulation.
- (12) A crude olive-pomace oil or refined olive-pomace oil or olive-pomace oil that exhibits $0.5 < \Delta\text{-7-stigmastenol \%} \leq 0.8$ is authentic provided that $\text{stigmasterol} \leq 1.4\%$, $\Delta\text{ECN42} \leq 0.40$ and all other parameters lie within the limits fixed in this regulation.
- (9 13) Oils with a wax content of between 300 mg/kg and 350 mg/kg are considered to be lampante olive oil if the total aliphatic alcohol content is less than or equal to 350 mg/kg or if the erythrodiol and uvaol content is less than or equal to 3.5 %.
- (10 14) Oils with an erythrodiol + uvaol content of between 4.5 and 6 % must have an erythrodiol content of less than or equal to 75 mg/kg.
- (11 15) Oils with a wax content of between 300 mg/kg and 350 mg/kg are considered to be crude olive-pomace oil if the total aliphatic alcohol content is above 350 mg/kg and if the erythrodiol and uvaol content is greater than 3.5 %.

Notes:

- (a) The results of the analyses must be expressed to the same number of decimal places as used for each characteristic. The last digit must be increased by one unit if the following digit is greater than 4.

- (b) If just a single characteristic does not match the values stated, the category of an oil shall be changed or the oil shall be declared non-compliant for the purposes of this Regulation.
- (c) For lampante olive oil, both quality characteristics marked with an asterisk (*) may differ simultaneously from the limits established for that category.
- (d) If a characteristic is marked with two asterisks (**), this means that for crude olive-pomace oil, it is possible for both the relevant limits to be different from the stated values at the same time. For olive-pomace oil and refined olive-pomace oil, one of the relevant limits may be different from the stated values.'

ANNEX II

Correlation Table

Implementing Regulation (EU) No 29/2012	Regulation (EEC) No 2568/91	This Regulation	Implementing Regulation (EU) 2022/2105
-----	-----	Article 1, point (a)	
-----	-----		Article 1
-----	-----		Article 2(2)
Article 1(1)		Article 1, point (b), and Article 1(2)	
Article 1(2)		Article 1, point (b)	
Article 2, first paragraph		Article 4(1)	
Article 2, second paragraph		Article 4(2)	
Article 3, first paragraph		Article 6(1)	
Article 3, second paragraph, points (a) to (d)		Article 6(2), points (a) to (d)	
Article 4(1), first subparagraph		Article 8(1)	
Article 4(1), second subparagraph		Article 8(2)	
Article 4(1), third subparagraph		-	
Article 4(2)		Article 8(3)	

Implementing Regulation (EU) No 29/2012	Regulation (EEC) No 2568/91	This Regulation	Implementing Regulation (EU) 2022/2105
Article 4(3)		Article 8(4)	
Article 4(4)		Article 8(5)	
Article 4(5), first subparagraph		Article 8(6)	
Article 4(5), second subparagraph		Article 8(7)	
Article 4a		Article 7	
Article 4b		Article 5	
Article 5, first paragraph, points (a) to (d)		Article 10, points (a) to (d)	
Article 5, first paragraph, point (e)		Article 11(1) and (2)	
Article 5, second paragraph		-	
Article 5a, first paragraph		Article 11(3)	
Article 5a, second paragraph		Article 11(4)	
Article 5a, third paragraph		Article 11(5)	
Article 6(1), first subparagraph		Article 12(1)	

Implementing Regulation (EU) No 29/2012	Regulation (EEC) No 2568/91	This Regulation	Implementing Regulation (EU) 2022/2105
Article 6(1), second subparagraph		Article 12(2)	
Article 6(1), third subparagraph		Article 3(3)	
Article 6(2), first subparagraph		Article 12(3)	
Article 6(2), second subparagraph		Article 12(4)	
Article 6(3)		Article 12(5)	
-	-	Article 12(6)	
Article 6(4)		-	
Article 7			Article 5(2)
Article 8(1)			Article 2(3)
Article 8(2)			Article 4(3)
Article 8(3)			Article 4(2)
Article 8(4)			Article 4(3)
Article 8a			Articles 2(1) and 4(1)

Implementing Regulation (EU) No 29/2012	Regulation (EEC) No 2568/91	This Regulation	Implementing Regulation (EU) 2022/2105
Article 9(1), first subparagraph			Article 13(1)
Article 9(1), second subparagraph			Article 13(2)
Article 9(1), third subparagraph			----
Article 9(1), fourth subparagraph			----
Article 9(1), fifth subparagraph			----
Article 9(2), first subparagraph			Article 6(1)
Article 9(2), second subparagraph, points (a), (b) and (c)			Article 6(2), points (a), (b) and (c)
Article 9(2), third subparagraph		Article 9	
-----			Article 6(3)
Article 10, first paragraph, introductory sentence			Article 14
Article 10, first paragraph, points (a) to (d), and second paragraph			-----

Implementing Regulation (EU) No 29/2012	Regulation (EEC) No 2568/91	This Regulation	Implementing Regulation (EU) 2022/2105
Article 10a			Article 14
Annex I		-	
Annex II		-	
	Article 1(1)	Article 2(1)(a) and 2(1)(b)	
	Article 1(2)	Article 2(1)(c)	
	Article 1(3)	Article 2(1)(d)	
	Article 1(4)	Article 2(1)(e)	
	Article 1(5)	Article 2(1)(f)	
	Article 1(6)	Article 2(1)(g)	
	Article 1(7)	Article 2(1)(h)	
-----	-----	Article 2(2)	
-----	-----	Article 3(1) and (2)	
	Article 2(1)		Article 7
	Article 2(1), point (a)		Annex I, point 1
	Article 2(1), point (b)		Annex I, point 2
	Article 2(1), point (c)		-----

Implementing Regulation (EU) No 29/2012	Regulation (EEC) No 2568/91	This Regulation	Implementing Regulation (EU) 2022/2105
	Article 2(1), point (d)		-----
	Article 2(1), point (e)		Annex I, point 3
	Article 2(1), point (f)		Annex I, point 4
	Article 2(1), point (g)		Annex I, point 5
	Article 2(1), point (h)		-----
	Article 2(1), point (i)		Annex I, point 6
	Article 2(1), point (j)		Annex I, point 7
	Article 2(1), point (k)		Annex I, point 8
	Article 2(1), point (l)		Annex I, point 9
	Article 2(1), point (m)		Annex I, point 10
	Article 2(2), first subparagraph and part of point 9.4 of Annex XII		Article 10(1)
	Article 2(2), second subparagraph		Article 11(1)

Implementing Regulation (EU) No 29/2012	Regulation (EEC) No 2568/91	This Regulation	Implementing Regulation (EU) 2022/2105
	Article 2(2), third subparagraph		Article 11(2)
	-		Article 11(3)
	part of point 9.4 of Annex XII		Article 11(4)
	Article 2(3), first subparagraph		Article 3(1)
	Article 2(3), second subparagraph		Article 3(2)
	Article 2(4), first subparagraph		Article 9(2)
	Article 2(4), second subparagraph		Article 9(3)
	Article 2(4), third subparagraph		Article 9(4)
	Article 2(5)		Article 9(5)
	Article 2a(1)		Article 3(1)
	Article 2a(2)		Article 3(3)
	Article 2a(3)		Article 3(4)
	Article 2a(4), first subparagraph		Article 3(5)

Implementing Regulation (EU) No 29/2012	Regulation (EEC) No 2568/91	This Regulation	Implementing Regulation (EU) 2022/2105
	Article 2a(4), second subparagraph		Article 3(2)
	Article 2a(5)		Article 9(1)
	Article 3, first paragraph		Article 13(1)
	Article 3, second paragraph		Article 3(6)
	Article 4(1), first subparagraph		Article 10(1)
	Article 4(1), second subparagraph		Article 10(2)
	Article 4(1), third subparagraph		Article 10(3)
	Article 4(2)		Article 10(4)
	Article 4(3)		-
	Article 6(1)		Article 12(1)
	Article 6(2)		Article 12(2)
	Article 7		----
	<u>Article 7a, first sub-paragraph</u>		<u>Article 5(1)</u>
	Article 7a, second paragraph		Article 2(2)

Implementing Regulation (EU) No 29/2012	Regulation (EEC) No 2568/91	This Regulation	Implementing Regulation (EU) 2022/2105
	Article 8(1)		-
	Article 8(2)		Article 14
	Annex I	Annex I	
	Annex XII, point 3.3	Annex II	
	Annex Ia, except for point 2.1		Annex II
	Annex Ia, point 2.1		Article 9(6)
	Annex Ib		Annex III
	Annex III		----
	Annex IV		----
	Annex VII		----
	Annex IX		----
	Annex X		----
	Annex XI		----
	Annex XII, except for point 3.3 and part of point 9.4		----

Implementing Regulation (EU) No 29/2012	Regulation (EEC) No 2568/91	This Regulation	Implementing Regulation (EU) 2022/2105
	Annex XV		Annex IV
	Annex XVI		----
	Annex XVII		----
	Annex XVIII		----
	Annex XIX		----
	Annex XX		----
	Annex XXI		Annex V