

ANALYSIS CERTIFICATE

Analysis type and demander

Analysis certificate asked by ATLAS OLIVE OILS - 110 Bd Yacoub Mansour - Casablanca - Morocco

Product

Client: Belgique - NATURA MEDICATRIX
Organic certified extra virgin olive oil - Olivie Plus 30X – Numero Lot: C25300323G250

Arrival date

May 08th 2023

Analysis completion date

May 18th 2023

Analytical Results

- 1) Smell, flavor and taste: Clear oil, of a yellow to green color, fruity and mild taste, free from odors or tastes indicating alteration or pollution of oil.

Defect (Me): 0
Olive flavor and smell (Me): 3.6

PARAMETER

RESULT

NORMS

- 2) Transparency (20°C, 24h): Transparent
- 3) Acidity (Free FattyAcid %): 0.48 GB23347-2009
- 4) Peroxide value(meq.O2/kg): 5.9 GB23347-2009
- Residual solvent content in oil: Non residue.
- 5) Absorbency in ultra-violet : K270 : 0.14, ΔK : 0.002
- 7) Moisture and volatile matter (%): 0.02
- 8) Insoluble impurity (%): 0.004
- 9) Metal content Fe: 1.8 mg/kg Cu : 0.06 mg/kg
- 10) Unsaponifiable matter: 6.3 g/kg GB23347-2009
- 11) Lignoceric (C24:0): 0.1 GB23347-2009
- 12) Trans Oleic (C18:1T): 0.02% GB23347-2009
- TransLinoleic + Linolenic (C18:2T+ C18:3T) : 0.02% GB23347-2009
- 13) Wax Content: 64 mg/kg GB23347-2009
- 14) Lead: 0.01 mg/kg GB2716-2005
- 15) Pesticide

Rogor	0.0 mg/kg (absent, no traces)	GB2763-2005
Diquat	0.00 mg/kg (absent, no traces)	GB2763-2005
Fenthion	0.0 mg/kg (absent, no traces)	GB2763-2005
Haloxypop	0.0 mg/kg (absent, no traces)	GB2763-2005
Procymidone	0.0 mg/kg (absent, no traces)	GB2763-2005
Chlordane	0.0 mg/kg (absent, no traces)	GB2763-2005 /GB2763-2005 (REV-1)
Benzopyrene	0.0 μ g/kg (absent, no traces)	GB2716-2005

18) FATTY ACID:

Palmitic (C16:0)	13.9
Pamitoleic (C16:1)	1.1
Heptadecanoic (C17:0)	0.22
Heptadecanoic (C17:1)	0.15
Stearic (C18:0)	1.8
Oleic (C18:1)	68.4
Linoleic (C18:2)	11.0
Linolenic (C18:3)	0.3
Aushidic (C20:0)	0.21
Gadoleic (C20:0)	0.22
Behenic (C20:1)	0.11
Lignoceric (C24:0)	0.1

19) STEROLS(% in total sterols):

Total Sterols mg/kg	1116
Cholesterol	0.1
Brassicasterol	0.06
Campsterol	3.9
ERYTHRODIOL+UVAOL (% total sterols)	2.5%
Stigmasterol	0.3
Stigmastadienol mg/kg	0.10 mg/kg



20) POLYPHENOLS

Total Polyphenols mg/kg	1255
Tyrosol mg/Kg	131.8
Total Hydroxytyrosol mg/Kg (linked hydroxytyrosol + isolated hydroxytyrosol)	231.6
Oleuropeine mg/Kg	30.4

21) ADDITIONAL PARAMETERS

ARSENIC (As)	0.00 PPM (no traces)
CADMIUM (Cd)	0.00 PPM (no traces)
MERCURY (Hg)	0.00 PPM (no traces)
TIN (Sn)	1 PPM
SAPONIFICATION VALUE	72 /MG KOH/G
IODINE VALUE	0.00 WIJS (no traces)

22) MICROBIOLOGY ANALYSIS

Détermination	1	2
FMAT Norme AFNOR (NF V08-051,1999).	0 UFC/ml NOT FOUND	0 UFC/ml NOT FOUND
Fungus Norme AFNOR (NF X 11501).	0 UFC/ml NOT FOUND	0 UFC/ml NOT FOUND

Conclusion:
The values resulted meet the specifications demanded for extra virgin olive oils by EC Regulation No. 2568/91, Commission of 11/07/1991 in force from 09/09/1991 and subsequent amendments, and by International Olive Oil Council Trade Standard COI/T.15/NC no.3/Rev.4 november 2009.
We confirm that none traces of pesticide residue and none traces of herbicide residue were found in the extra virgin olive oil submitted by the producer. Also no traces of fungus or bacteria was detected.

Fès, May 18th 2023



Laboratory Director

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