



CERTIFICATE OF ANALYSIS N°: 63048

Argan Vegetable Oil (organic)

Art. No. DOARGA-100 | DOARGA-250



Sample designation : Argan Vegetable Oil
 Botanical name : Argania spinosa
 Lot number : A23187
 Geographic origin : Morocco
 Type of culture : Organic
 Part of the plant used : Kernels
 Expiration date : 01-2025

Sensory Check

feature	reference	result
Appearance:	Oily liquid	meets
Colour:	Yellow to Brown	meets
Odour:	Oily and characteristic	meets

Analytical Check

feature	method	Result
Refractive index 20°C	MO-042	1.474
Acid index	MO-003	4.4 mg KOH/g 2.2% oleic acid
Peroxide index	MO-009	2.1 mmol O ₂ /kg 4.2 meq O ₂ /kg Test sample: 5.002 g
Lodine number	MO-060	155 g/100g
Saponification index	MO-006	185 mg KOH/g
Absorbance at 270 nm	MO-161	0.511

Chromatographic analysis by GC / FID after transesterification.

TR	Compounds	% Fid	% Fid without free fatty acid
6.03	Myristic Acid	0.030	0.030
6.86	Palmitic acid	6.437	6.524
6.92	Hexadecenoic Acid *	0.023	0.023
6.95	Palmitoleic acid (omega 9)	0.129	0.131
7.35	Heptadecanoic acid	0.049	0.050
7.46	Cis-10-Heptadecenoic acid	0.026	0.026
7.72	Heptadecenoic Acid *	0.027	0.027
8.02	Stearic acid	2.838	2.876
8.14	Oleic acid (omega 9)	10.620	10.763
8.18	Octadecenoic Acid *	0.933	0.945
8.45	Linoleic acid (omega 6)	55.116	55.863
8.54	Gamma-Linolenic Acid (omega 6)	3.368	3.414
8,79	Alpha-Linolenic Acid (omega 3)	16.985	17.215
8.92	Free Palmitic Acid	1.101	-
9.61	Arachidic Acid	0.885	0.897

Chromatographic analysis by GC / FID after transesterification (2).

TR	Compounds	% Fid	% Fid without free fatty acid
9,78	Cis-11-Eicosenoic acid (omega 9)	0.406	0.412
10.79	Free Stearic Acid	0.070	-
11.00	Free oleic acid	0.121	-
11.39	Free Linoleic Acid	0.025	-
11.48	Behenic acid	0.332	0.336
11.66	Erucic acid	0.023	0.023
11.86	Free Linolenic Acid	0.020	-
12.51	Tricosanoic acid	0.029	0.029
13.81	Lignoceric Acid	0.131	0.133
Total		99.719	99.719

* Unidentified isomer

Research and quantification of compounds by GC / MS-QQQ

Compound name	Measured value (ppm)	Limit of quantification * (ppm)	Method
THC CAS: 1972-08-3	Not detected	10	MO-140

* Under operating conditions

Research and quantification of compounds by HPLC

Compound name	Measured value (ppm)	Limit of quantification * (ppm)	Method
CBD CAS: 13956-29-1	40	10	MO-111

* Under operating conditions

Document version: ENR-047-V2 dated 08/01/2021