

## **CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	<b>ARGAN OIL</b>
<b>Botanical Name</b>	Argania spinosa
<b>Product Code</b>	PCO4002
<b>CAS #</b>	223747-87-3
<b>INCI Name</b>	Argania spinosa (Argan) Kernel oil

<b>Batch #</b>	4536412
<b>Manufacturing Date</b>	MARCH 2024
<b>Best Before Date</b>	MARCH 2026

<b>Part Used</b>	Fruit Kernels
<b>Extraction Method</b>	Cold Pressed
<b>Quality</b>	100% Pure and Natural

<b><u>PROPERTIES</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>RESULTS</u></b>
<b>Appearance</b>	Clear light yellow oily liquid	CONFORMS
<b>Odour</b>	Nearly odourless	CONFORMS
<b>Colour Y/R</b>	MAX. 30/2,5	13Y, 0.9R
<b>Refractive Index</b>	1.465 - 1.475 @ 20 °C	1.470
<b>Specific Gravity @ 20°C</b>	0,908 - 0,918	0.912
<b>Peroxide Value (meq O<sub>2</sub>/kg)</b>	<10.0	0.5
<b>Iodine Value (g I<sub>2</sub>/100g)</b>	95 - 105	104
<b>Free Fatty Acids (% oleic)</b>	<0.5	0.1
<b>Saponification Value (mgKOH/g)</b>	187 - 200	191

### **FATTY ACID COMPOSITION:**

<b><u>FATTY ACID</u></b>	<b><u>C-CHAIN</u></b>	<b><u>SPECIFICATIONS (%)</u></b>	<b><u>RESULTS (%)</u></b>
<b>Palmitic Acid</b>	C16:0	10.00 – 15.00	11.60
<b>Palmitoleic Acid</b>	C16:1	<1.0	0.1
<b>Stearic Acid</b>	C18:0	3.00 – 6.50	3.40
<b>Oleic Acid</b>	C18:1	45.00 – 55.00	52.40
<b>Linoleic Acid</b>	C18:2	28.00 – 36.00	30.00
<b>Linolenic Acid</b>	C18:3	<1.0	0.6

Shelf life is guaranteed for three years from the date of production if the product is stored in the unopened original container between 15°C - 30°C, protected from light. Because this material is sensitive to oxidation, it is saturated with nitrogen and sealed with nitrogen atmosphere for protection. If containers are opened for sampling, be sure to refill atmosphere with nitrogen. Containers that have been opened should be tested at least yearly to ensure potency. Although we believe the above information to be accurate based on the information available to Avena Lab, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to use to verify that the product purchased from Avena Lab meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided above shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material is subject to Avena Lab standard terms and conditions, which supersede any conflicting terms contained on Buyer's purchase order or any document or instrument supplied by Buyer.

<u>MICROBIAL ANALYSIS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>	<u>RESULTS</u>
<b>Aerobic Mesophilic Bacterial Count</b>	< 100 CFU/g	ISO 21149	CONFORMS
<b>Yeast and Mould</b>	< 10 CFU/g	ISO 16212	CONFORMS
<b>Candida albicans</b>	ABSENT / 1g	ISO 18416	CONFORMS
<b>Escherichia coli</b>	ABSENT / 1g	ISO 21150	CONFORMS
<b>Pseudomonas aeruginosa</b>	ABSENT / 1g	ISO 22717	CONFORMS
<b>Staphylococcus aureus</b>	ABSENT / 1g	ISO 22718	CONFORMS

<u>HEAVY METAL TESTS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>	<u>RESULTS</u>
<b>Lead: Pb (mg/kg or ppm)</b>	< 10 ppm	na	CONFORMS
<b>Arsenic: As (mg/kg or ppm)</b>	< 2 ppm	na	CONFORMS
<b>Mercury: Hg (mg/kg or ppm)</b>	< 1 ppm	na	CONFORMS

#### **STABILITY AND STORAGE:**

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use.

**As it is electronically generated document, hence no signature required.**

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