

CERTIFICATE OF ANALYSIS

Product Name	WALNUT OIL
Botanical Name	Juglans regia
Product Code	PCO4044
CAS #	8024-09-07 ; 84012-43-1
EINECS #	281-688-1
INCI Name	Juglans Regia Seed Oil

Batch #	6036M25/01
Manufacturing Date	11/2025
Best Before Date	11/2027

Part Used	Nuts
Extraction Method	Cold Pressed
Quality	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance @ 25°C	Pale yellow to golden yellow colored liquid	CONFORMS
Colour Lovibond (5.25" CELL)	≤50Y/5.0R	8.4Y/0.9R
Density @ 20°C	0.903 - 0.930 @ 20°C	0.918
Acid Value (mgKOH/g)	≤1.00	0.10
Peroxide Value (meq O2/kg)	≤2.0	0.4
Iodine Value (g I2/100g)	120 - 135	131.0
Unsaponifiable matter	≤1.00	CONFORMS
Saponification Value (mgKOH/g)	190 - 200	192.5

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.

FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>	<u>RESULTS (%)</u>
Lauric Acid	C12:0	≤0.10	Tr.
Myristic Acid	C14:0	≤0.20	0.08
Palmitic Acid	C16:0	5.00 – 8.00	6.56
Palmitoleic Acid	C16:1	≤1.00	0.09
Margaric Acid	C17:0	<0.10	Tr.
Margaroleic Acid	C17:1	<0.10	Tr.
Stearic Acid	C18:0	2.00 – 7.00	3.75
Oleic Acid	C18:1	25.00 – 35.00	31.11
Linoleic Acid	C18:2	45.00 – 60.00	57.78
Alpha-Linolenic Acid	C18:3	≤0.80	0.05
Arachidic Acid	C20:0	≤0.50	0.24
Eicosenoic Acid	C20:1	≤0.50	0.13
Behenic Acid	C22:0	≤0.30	0.17
Erucic Acid	C22:1	Tr.	Tr.

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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