

CERTIFICATE OF ANALYSIS

Product Name	WHEAT GERM OIL
Botanical Name	Triticum aestivum
Product Code	PCO4023
CAS #	84012-44-2 ; 68917-73-7
EINECS #	281-689-7
INCI Name	Triticum vulgare (Wheat) Germ Oil

Batch #	LOT202504/10
Manufacturing Date	APRIL 2025
Best Before Date	APRIL 2027

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Pale yellow - clear oily liquid	CONFORMS
Odour	Odourless	CONFORMS
Specific Gravity (g/mL)	0.915 - 0.930 @ 20 °C	0.926
Refractive Index	1.473 - 1.476 @ 20 °C	1.475
Free Fatty Acids (% oleic)	≤ 1.0	0.1
Iodine Value (g I₂/100g)	115 - 140	127
Peroxide Value (meq O₂/kg)	≤ 10.0	4.31
Acid Value (mgKOH/g)	≤ 2.0	0.2
Saponification Value (mgKOH/g)	180 - 195	191
Unsaponifiable Matter (%)	<5.0	0.8
Vitamin E	>1820	2350
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

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>
Palmitic Acid	C16:0	10.0 – 16.0	13.2
Palmitoleic Acid	C16:1	≤ 1.0	0.1
Stearic Acid	C18:0	1.0 – 4.0	3.5
Oleic Acid	C18:1	18.0 – 28.0	26.1
Linoleic Acid	C18:2	50.0 – 59.0	51.6
Linolenic Acid	C18:3	< 4.0	3.8
Arachidic Acid	C20:0	< 1.0	0.2
Eicosenoic Acid	C20:1	< 0.5	0.3
Behenic Acid	C22:0	< 0.4	0.1

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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