

- (i) Import and distrubition for Serbia: Avena Lab Farmadria d.o.o.
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## **CERTIFICATE OF ANALYSIS**

Product Name	BLACK CURRANT SEED OIL		
Botanical Name	Ribes nigrum		
Product Code	PCO4031		
CAS#	68606-81-5 ; 97676-19-2		
EINECS #	271-749-0		
INCI Name	Ribes nigrum (Black Currant) Seed Oil		

Batch #	40312308		
Manufacturing Date	AUGUST 2023		
Best Before Date	JULY 2025		

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

PROPERTIES	<u>SPECIFICATIONS</u>	RESULTS
Appearance	Clear pale yellow to golden yellow colored liquid	CONFORMS
Odour	Characteristic very mild odour	CONFORMS
Refractive Index	1.467 - 1.483 @ 20°C	1.476
Specific Gravity (g/mL)	0.910- 0.935 @ 20°C	0.924
Saponification Value (mgKOH/g)	185 - 195	186
Free Fatty Acids (% oleic)	Less than 0.5	0.20
Moisture (%)	Less than 0.25	CONFORMS
Melting Point(°C)	25° - 38°	CONFORMS
Peroxide Value (meq O <sub>2</sub> /kg)	Less than 3.0	CONFORMS
Iodine Value (g I2/100g)	145 -185	172
Acid Value (mgKOH/g)	Less than 0.5	0.15
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS



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## **FATTY ACID COMPOSITION:**

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)	RESULTS (%)
Palmitic Acid	C16:0	3.00 – 9.00	7.10
Stearic Acid	C18:0	1.00 – 4.00	2.60
Oleic Acid	C18:1 (n-9)	8.00 – 18.00	12.90
Linoleic Acid	C18:2 (n-6)	32.00 – 55.00	47.10
Alpha-Linolenic Acid	C18:3 (n-3)	12.00 – 16.00	14.80
Gamma-Linolenic Acid	C18:3 (n-6)	Minimum 15.0	16.20
Stearidonic Acid	C18:4 (n-3)	2.00 – 4.00	3.60

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

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

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