

- (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	
EINECS #	-	
INCI Name	Ribes nigrum (Black Currant) Seed Oil	

Batch #	40312210
Manufacturing Date	OCTOBER 2022
Best Before Date	SEPTEMBER 2024

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

<u>PROPERTIES</u>	SPECIFICATIONS	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	1.475
Specific Gravity (g/mL)	0.910- 0.935 @ 20°C	0.923
Saponification Value (mgKOH/g)	185 - 195	191
Free Fatty Acids (% oleic)	Less than 0.5	0.14
Moisture (%)	Less than 0.25	CONFORMS
Melting Point (°C)	25° - 38°	CONFORMS
Peroxide Value (meq O ₂ /kg)	Less than 3.0	CONFORMS
lodine Value (g l₂/100g)	145 -185	164
Acid Value (mgKOH/g)	Less than 0.5	0.30
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	6.90
Stearic Acid	C18:0	1.00 - 4.00	1.50
Oleic Acid	C18:1 (n-9)	8.00 – 18.00	11.8
Linoleic Acid	C18:2 (n-6)	32.00 - 55.00	46.9
Alpha-Linolenic Acid	C18:3 (n-3)	12.00 – 16.00	13.7
Gamma-Linolenic Acid	C18:3 (n-6)	Minimum 15.0	15.1
Stearidonic Acid	C18:4 (n-3)	2.00 - 4.00	2.50

MICROBIAL ANALYSIS	SPECIFICATIONS	STANDARDS	<u>RESULTS</u>
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.

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