

- (i) Import and distrubition for Serbia: Avena Lab Farmadria d.o.o.
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- +381 (0) 69 / 55 65 029
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CERTIFICATE OF ANALYSIS

Product Name	PISTACHIO NUT OIL
Botanical Name	Pistacia vera
Product Code	PCO4084
CAS#	90082-81-8
EINECS #	290-173-0
INCI Name	Pistacia Vera (Pistachio) Seed Oil

Batch #	40842211
Manufacturing Date	NOVEMBER 2022
Best Before Date	OCTOBER 2024

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	RESULTS
Appearance	Greenish yellow to olive green colored liquid	CONFORMS
Odour	Characteristic mild odour	CONFORMS
Refractive Index	1.460 - 1.475 @ 20°C	1.467
Specific Gravity (g/mL)	0.910 - 0.920 @ 20°C	0.914
Saponification Value (mgKOH/g)	189 - 195	192
Peroxide Value (meq O2/kg)	Less than 5.0	CONFORMS
lodine Value (g l2/100g)	84 - 115	100
Free Fatty Acids (% oleic)	Less than 1.0	CONFORMS
Acid Value (mgKOH/g)	Less than 1.0	CONFORMS
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	8.00 – 15.00	11.50
Palmitoleic Acid	C16:1 (n-7)	Maximum 3.00	1.70
Stearic Acid	C18:0	Maximum 3.00	1.50
Oleic Acid	C18:1 (n-9)	45.00 - 58.00	54.20
Linoleic Acid	C18:2 (n-6)	27.00 – 37.00	29.80
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 2.00	0.70

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.

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