Avena Lab
Farmadria d.o.o. Since 1991.

Import and distrubition for Serbia: Avena Lab - Farmadria d.o.o.
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TECHNICAL DATA SHEET

Product Name	**NEEM OIL**
Botanical Name	Melia azadirachta
Product Code	PCO4061
CAS #	8002-65-1 ; 90063-92-6
EINECS #	290-052-2
INCI Name	Melia Azadirachta (Neem) Seed Oil

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

PROPERTIES	**SPECIFICATIONS**
Appearance	Golden yellow to reddish brown colored
Odour	Characteristic herbaceous, bitter odour
Refractive Index	1.461 - 1.471 @ 40°C
Specific Gravity (g/mL)	0.910 - 0.950 @ 20°C
Moisture & Insoluble Impurities(%)	Maximum 0.3
Saponification Value (mgKOH/g)	175 - 205
Unsaponifiable Matter (%)	Maximum 2.0
Peroxide Value (meq O_2/kg)	Less than 20.0
Iodine Value (g I_2/100g)	65 - 80
Azadirachtin Content (ppm)	Greater than 1000
Acid Value (mgKOH/g)	Less than 15.0
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

FATTY ACID COMPOSITION:

FATTY ACID	**C-CHAIN**	**SPECIFICATIONS (%)**
Palmitic Acid	C16:0	14.00 – 34.00
Stearic Acid	C18:0	6.00 – 24.00
Oleic Acid	C18:1 (n-9)	25.00 – 58.00
Linoleic Acid	C18:2 (n-6)	6.00 – 17.00
Arachidic Acid	C20:0	Maximum 5.0

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

HEAVY METAL TESTS	SPECIFICATIONS	STANDARDS
Lead: Pb (mg/kg or ppm)	< 10 ppm	na
Arsenic: As (mg/kg or ppm)	< 2 ppm	na
Mercury: Hg (mg/kg or ppm)	< 1 ppm	na

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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