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 - Import and distrubition for Serbia: Avena Lab Farmadria d.o.o.
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CERTIFICATE OF ANALYSIS

Product Name	CASTOR OIL	
Botanical Name	Ricinus communis	
Product Code	OCCASTOIL	
CAS#	8001-79-4	
EINECS #	232-293-8	
INCI Name	Ricinus Communis Seed Oil	

Batch #	4490203
Manufacturing Date	JANUARY 2023
Best Before Date	DECEMBER 2024

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

PROPERTIES	SPECIFICATIONS	<u>RESULTS</u>
Appearance	Clear to pale yellow colored liquid	CONFORMS
Odour	Characteristic mild odour	CONFORMS
Refractive Index	1.477 - 1.481 @ 20°C	1.478
Specific Gravity (g/mL)	0.958 - 0.970 @ 20°C	0.959
Saponification Value (mgKOH/g)	176 - 187	180
Peroxide Value (meq O2/kg)	Less than 10.0	CONFORMS
lodine Value (g l2/100g)	82 - 90	85
Free Fatty Acids (% oleic)	Less than 1.0	0.24
Acid Value (mgKOH/g)	Less than 1.5	0.48
Solubility	Soluble in cosmetic esters and fixed	CONFORMS
	oils; Insoluble in water	



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FATTY ACID COMPOSITION:

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)	RESULTS (%)
Palmitic Acid	C16:0	< 2.00	1.06
Stearic Acid	C18:0	< 2.50	1.18
Oleic Acid	C18:1	2.50 - 6.00	3.50
Ricinoleic Acid	C18:1	85.00 – 92.00	88.62
Linoleic Acid	C18:2	2.50 – 7.00	4.45
Linolenic Acid	C18:3	< 1.00	0.37
Eicosenoic Acid	C20:1	< 1.00	0.28

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