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  - Import and distrubition for Serbia: Avena Lab Farmadria d.o.o.
- info@avenalab.com
- +381 (0) 69 / 55 65 029
- (a) www.avenalab.com

## **CERTIFICATE OF ANALYSIS**

Product Name	BRAZIL NUT OIL		
<b>Botanical Name</b>	Bertholletia excelsa		
Product Code	PCO4038		
CAS#	160965-04-8		
EINECS #	-		
INCI Name	Bertholletia excelsa (Brazil Nut) Oil		

Batch #	40382212
Manufacturing Date	DECEMBER 2022
Best Before Date	NOVEMBER 2024

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	RESULTS
Appearance	Pale yellow to golden colored liquid	CONFORMS
Odour	Characteristic slight nutty odour	CONFORMS
Refractive Index	1.460 - 1.480 @ 20°C	1.468
Specific Gravity (g/mL)	0.890 - 0.950 @ 25°C	0.915
Saponification Value (mgKOH/g)	180 - 200	190
Peroxide Value (meq O2/kg)	Less than 10.0	CONFORMS
lodine Value (g l2/100g)	70 - 130	101
Free Fatty Acids (% oleic)	Less than 0.5	0.1
Acid Value (mgKOH/g)	Less than 1.0	0.2
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 (%)
Lauric Acid	C12:0	Maximum 0.50	0.10
Myristic Acid	C14:0	Maximum 0.50	0.10
Palmitic Acid	C16:0	10.00 – 15.00	11.30
Palmitoleic Acid	C16:1	0.10 - 0.50	0.20
Stearic Acid	C18:0	8.00 – 12.00	9.00
Oleic Acid	C18:1 (n-9)	35.00 – 45.00	41.90
Linoleic Acid	C18:2 (n-6)	30.00 – 40.00	35.80
Alpha-Linolenic Acid	C18:3 (n-3)	0.50 - 1.50	0.70

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.