



CERTIFICATE OF ANALYSIS (COA)

Product Name	AVOCADO OIL
Botanical Name	Persea americana (syn Persea gratissima)
Product Code	PCO4004
CAS #	8024-32-6; 8007-72-5
EINECS #	232-428-0
INCI Name	Persea Gratissima (Avocado) Oil

Batch #	40042111
Manufacturing Date	NOVEMBER 2021
Best Before Date	OCTOBER 2023

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Greenish yellow colored liquid	CONFORMS
Odour	Characteristic mild nutty odour	CONFORMS
Refractive Index	1.460 - 1.480 @ 20°C	1.471
Specific Gravity (g/mL)	0.910 - 0.928 @ 20°C	0.915
Saponification Value (mgKOH/g)	190 - 210	196
Peroxide Value (meq O₂/kg)	Less than 4.0	CONFORMS
Iodine Value (g I₂/100g)	64 - 95	78
Free Fatty Acids (% oleic)	Less than 0.5	0.1
Acid Value (mgKOH/g)	Less than 1.0	0.2
Moisture (%)	Less than 0.1%	0.01
Vitamin E (mg/kg)	70 - 190	CONFORMS
Solubility	Soluble in Cosmetic esters and fixed oils; Insoluble in water	CONFORMS

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FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>	<u>RESULTS (%)</u>
Palmitic Acid	C16:0	10.00 – 25.00	12.90
Palmitoleic Acid	C16:1 (n-7)	2.00 – 8.00	4.30
Stearic Acid	C18:0	0.10 – 0.40	0.20
Oleic Acid	C18:1 (n-9)	60.00 – 80.00	66.10
Linoleic Acid	C18:2 (n-6)	7.00 – 20.00	14.70
Alpha-Linolenic Acid	C18:3 (n-3)	0.20 – 1.00	0.70

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

<u>HEAVY METAL TESTS</u>	<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.

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