

CERTIFICATE OF ANALYSIS (COA)

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

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULT</u>
Appearance	Greenish yellow colored liquid	CONFORMS
Odour	Characteristic mild nutty odour	CONFORMS
Refractive Index	1.460 - 1.480 @ 20°C	1.472
Specific Gravity (g/mL)	0.910 - 0.928 @ 20°C	0.918
Saponification Value (mgKOH/g)	190 – 210	196
Peroxide Value (meq O <sub>2</sub> /kg)	Less than 4.0	CONFORMS
Iodine Value (g I <sub>2</sub> /100g)	64 - 95	75
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

**FATTY ACID COMPOSITION:**

<b>FATTY ACID</b>	<b>C-CHAIN</b>	<b>SPECIFICATIONS (%)</b>	<b>RESULTS</b>
Palmitic Acid	<u>C16:0</u>	<u>10.00 – 15.00</u>	<u>11.20</u>
Palmitoleic Acid	<u>C16:1 (n-7)</u>	<u>2.00 – 8.00</u>	<u>3.80</u>
Stearic Acid	<u>C18:0</u>	<u>0.10 – 0.40</u>	<u>0.20</u>
Oleic Acid	<u>C18:1 (n-9)</u>	<u>60.00 – 80.00</u>	<u>66.90</u>
Linoleic Acid	<u>C18:2 (n-6)</u>	<u>7.00 – 20.00</u>	<u>14.90</u>
Alpha-Linolenic Acid	<u>C18:3 (n-3)</u>	<u>0.20 – 1.00</u>	<u>0.70</u>

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

<b><u>HEAVY METAL TESTS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>	<b><u>RESULTS</u></b>
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

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