

CERTIFICATE OF ANALYSIS (COA)

Product Name	PEACH KERNEL OIL
Botanical Name	Prunus persica
CAS #	8002-78-6 ; 8023-98-1 ; 84012-34-0
EINECS #	281-678-7
INCI Name	Prunus Persica (Peach) Kernel Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Pale yellow to golden yellow colored liquid	CONFORMS
Odour	Characteristic faint, almond-like odour	CONFORMS
Refractive Index	1.464 - 1.475 @ 20°C	1.469
Specific Gravity (g/mL)	0.911 - 0.921 @ 20°C	0.917
Saponification Value (mgKOH/g)	185 - 195	188
Peroxide Value (meqO ₂ /kg)	Less than 5.0	CONFORMS
Iodine Value (g I ₂ /100g)	95 - 115	103
Acid Value (mgKOH/g)	Less than 1.0	0.2
Free Fatty Acids (% oleic)	Less than 0.5	0.1
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

FREE ACID COMPOSITION

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)	RESULTS (%)
Palmitic Acid	C16:0	3.00 – 9.00	3.60
Palmitoleic Acid	C16:1 (n-7)	Maximum 0.50	0.20
Stearic Acid	C18:0	Maximum 3.50	1.50
Oleic Acid	C18:1 (n-9)	58.00 – 74.00	68.90
Linoleic Acid	C18:2 (n-6)	20.00 – 34.00	24.80
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 2.00	0.30

MICROBIAL ANALYSIS	<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

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