

CERTIFICATE OF ANALYSIS (COA)

Product Name	PLUM KERNEL OIL
Botanical Name	Prunus domestica
CAS #	90082-87-4
EINECS #	290-179-3
INCI Name	Prunus domestica (Plum) Seed Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Golden yellow colored liquid	CONFORMS
Odour	Characteristic faint almond-like odour	CONFORMS
Refractive Index	1.460 - 1.485 @ 20°C	1.473
Specific Gravity (g/mL)	0.910 - 0.930 @ 20°C	0.924
Saponification Value (mgKOH/g)	188 - 200	194
Peroxide Value (meqO ₂ /kg)	Less than 10.0	CONFORMS
Iodine Value (g I ₂ /100g)	90 - 108	98
Acid Value (mgKOH/g)	Less than 2.0	0.56
Free Fatty Acids (% oleic)	Less than 1.0	0.28
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	4.00 – 9.00	4.50
Palmitoleic Acid	C16:1 (n-7)	0.00 – 2.00	0.50
Stearic Acid	C18:0	0.70 – 2.60	0.90
Oleic Acid	C18:1 (n-9)	60.00 – 80.00	71.90
Linoleic Acid	C18:2 (n-6)	15.00 – 25.00	21.50
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 1.50	0.10

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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