

CERTIFICATE OF ANALYSIS

Product Name	SWEET ALMOND OIL
Botanical Name	Prunus amygdalus dulcis
Product Code	E304
CAS #	8007-69-0; 90320-37-9
FEMA #	2046
EINECS #	291-063-5
INCI Name	Prunus Amygdalus Dulcis (Sweet Almond) Oil

Batch #	40832006
Manufacturing Date	JUNE 2020
Best Before Date	MAY 2022

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Pale yellow to golden colored slightly viscous liquid	CONFORMS
Odour	Characteristic slight nutty odour	CONFORMS
Refractive Index	1.465 - 1.475 @ 20°C	1.471
Specific Gravity (g/mL)	0.910 - 0.930 @ 20°C	0.924
Saponification Value (mgKOH/g)	185 - 200	192
Peroxide Value (meq O₂/kg)	Less than 5.0	CONFORMS
Iodine Value (g I₂/100g)	93 - 110	102
Acid Value (mgKOH/g)	Less than 0.5	0.3
Moisture (%)	Maximum 0.1	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	3.00 – 9.00	6.60
Palmitoleic Acid	C16:1 (n-7)	Maximum 2.00	0.40
Stearic Acid	C18:0	Maximum 4.0	1.50
Oleic Acid	C18:1 (n-9)	60.00 – 86.00	67.30
Linoleic Acid	C18:2 (n-6)	20.00 – 30.00	21.70
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 2.00	0.50

<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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