



TREAT YOUR SOUL

# PUMPKIN SEED OIL

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	<b>PUMPKIN SEED OIL</b>
<b>Botanical Name</b>	Cucurbita pepo
<b>CAS #</b>	8016-49-7; 89998-03-8
<b>EINECS #</b>	289-741-0
<b>INCI Name</b>	Cucurbita pepo (Pumpkin) Seed Oil

<b>Part Used</b>	Seeds
<b>Extraction Method</b>	Cold Pressed
<b>Quality</b>	100% Pure and Natural

<b>PROPERTIES</b>	<b>SPECIFICATIONS</b>	<b>RESULTS</b>
<b>Appearance</b>	Reddish amber to dark green colored liquid	CONFORMS
<b>Odour</b>	Characteristic mild nutty odour	CONFORMS
<b>Refractive Index</b>	1.471 - 1.475 @ 20°C	1.472
<b>Specific Gravity (g/mL)</b>	0.915 - 0.925 @ 25°C	0.920
<b>Saponification Value (mgKOH/g)</b>	188 - 198	191
<b>Unsaponifiable Matter (%)</b>	Maximum 2.5	CONFORMS
<b>Peroxide Value (meq O<sub>2</sub>/kg)</b>	Less than 10.0	CONFORMS
<b>Iodine Value (g I<sub>2</sub>/100g)</b>	110 - 130	118
<b>Acid Value (mgKOH/g)</b>	Less than 1.5	CONFORMS
<b>Solubility</b>	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

**Address:** 975 Lunt Ave., Schaumburg Illinois 60193, USA

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## CERTIFICATE OF ANALYSIS

### FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>	<u>RESULTS (%)</u>
Palmitic Acid	C16:0	7.00 ± 16.00	12.60
Stearic Acid	C18:0	3.00 ± 8.00	6.20
Oleic Acid	C18:1 (n-9)	17.00 ± 41.00	25.70
Linoleic Acid	C18:2 (n-6)	40.00 ± 62.00	53.40
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 3.00	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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