



info@natureinbottle.com  www.natureinbottle.com

CERTIFICATE OF ANALYSIS (COA)

| | |
|-----------------------|-----------------------------------|
| Product Name | PUMPKIN SEED OIL |
| Botanical Name | Cucurbita pepo |
| Product Code | PCO4040 |
| CAS # | 8016-49-7; 89998-03-8 |
| EINECS # | 289-741-0 |
| INCI Name | Cucurbita pepo (Pumpkin) Seed Oil |

| | |
|---------------------------|---------------|
| Batch # | 40402501 |
| Manufacturing Date | JANUARY 2025 |
| Best Before Date | DECEMBER 2026 |

| | |
|--------------------------|-----------------------|
| Part Used | Seeds |
| Extraction Method | Cold Pressed |
| Quality | 100% Pure and Natural |

| <u>PROPERTIES</u> | <u>SPECIFICATIONS</u> | <u>RESULTS</u> |
|--|---|-----------------------|
| Appearance | Reddish amber to dark green colored liquid | CONFORMS |
| Odour | Characteristic mild nutty odour | CONFORMS |
| Refractive Index | 1.471 - 1.475 @ 20°C | 1.473 |
| Specific Gravity (g/mL) | 0.915 - 0.925 @ 25°C | 0.921 |
| Saponification Value (mgKOH/g) | 188 - 198 | 195 |
| Unsaponifiable Matter (%) | Maximum 2.5 | CONFORMS |
| Peroxide Value (meq O₂/kg) | Less than 10.0 | CONFORMS |
| Iodine Value (g I₂/100g) | 110 - 130 | 117 |
| Acid Value (mgKOH/g) | Less than 1.5 | 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 | 7.00 – 16.00 | 11.00 |
| Stearic Acid | C18:0 | 3.00 – 8.00 | 4.40 |
| Oleic Acid | C18:1 (n-9) | 17.00 – 41.00 | 28.20 |
| Linoleic Acid | C18:2 (n-6) | 40.00 – 62.00 | 55.20 |
| Alpha-Linolenic Acid | C18:3 (n-3) | Maximum 3.00 | 0.70 |

| <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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