

CERTIFICATE OF ANALYSIS (COA)

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|----------------|--|
| Product Name | CASHEW NUT OIL |
| Botanical Name | Anacardium occidentale |
| CAS # | 8007-24-7 |
| EINECS # | 232-355-4 |
| INCI Name | Anacardium Occidentale (Cashew) Seed Oil |

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

| <u>PROPERTIES</u> | <u>SPECIFICATIONS</u> | <u>RESULT</u> |
|---|--|---------------|
| Appearance | pale yellow to golden colored liquid | CONFORMS |
| Odour | Characteristic faint odour | CONFORMS |
| Refractive Index | 1.460 - 1.480 @ 20°C | 1.474 |
| Specific Gravity (g/mL) | 0.905 - 0.925 @ 20°C | 0.915 |
| Saponification Value (mgKOH/g) | 185 - 200 | 192 |
| Peroxide Value (meq O ₂ /kg) | Less than 5.0 | CONFORMS |
| Iodine Value (g I ₂ /100g) | 75 - 106 | 91 |
| Free Fatty Acids (% oleic) | Less than 0.5 | CONFORMS |
| Acid Value (mgKOH/g) | Less than 1.0 | CONFORMS |
| Solubility | Soluble in cosmetic esters and fixed oils; Insoluble in water | CONFORMS |

FATTY ACID COMPOSITION:

| FATTY ACID | <u>C-CHAIN</u> | <u>SPECIFICATIONS (%)</u> | <u>RESULTS</u> |
|----------------------|--------------------|---------------------------|----------------|
| Palmitic Acid | <u>C16:0</u> | <u>8.00 - 12.00</u> | <u>8.80</u> |
| Stearic Acid | <u>C18:0</u> | <u>2.00 - 11.00</u> | <u>3.80</u> |
| Oleic Acid | <u>C18:1 (n-9)</u> | <u>52.00 - 70.00</u> | <u>62.20</u> |
| Linoleic Acid | <u>C18:2 (n-6)</u> | <u>5.00 - 14.00</u> | <u>23.20</u> |
| Alpha-Linolenic Acid | <u>C18:3 (n-3)</u> | <u>Maximum 2.00</u> | <u>1.30</u> |

| 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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