

CERTIFICATE OF ANALYSIS (COA)

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|----------------|--|
| Product Name | GREEN TEA OIL |
| Botanical Name | Camellia Sinensis |
| CAS # | 68916-73-4 ; 84650-60-2 |
| EINECS # | 283-519-7 |
| INCI Name | Camellia Sinensis (Green Tea) Seed Oil |

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

| <u>PROPERTIES</u> | <u>SPECIFICATIONS</u> | <u>RESULTS</u> |
|---|--|----------------|
| Appearance | Pale yellow to golden colored liquid | CONFORMS |
| Odour | Characteristic odour | CONFORMS |
| Refractive Index | 1.460 - 1.490 @ 20°C | 1.474 |
| Specific Gravity (g/mL) | 0.900 - 0.940 @ 20°C | 0.921 |
| Saponification Value (mgKOH/g) | 180-210 | 195 |
| Iodine Value (g I ₂ /100g) | 75 - 95 | 84 |
| Peroxide Value (meq O ₂ /kg) | Less than 5.0 | CONFORMS |
| Acid Value (mgKOH/g) | Less than 0.5 | 0.46 |
| 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 | 6.00 – 15.00 | 7.50 |
| Stearic Acid | C18:0 | 0.80 – 2.00 | 1.00 |
| Oleic Acid | C18:1 (n-9) | 70.00 – 87.00 | 80.90 |
| Linoleic Acid | C18:2 (n-6) | 5.30 – 14.30 | 9.80 |

| 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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