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CERTIFICATE OF ANALYSIS (COA)

| | |
|-----------------------|------------------------------------|
| Product Name | ARGAN OIL |
| Botanical Name | Argania spinosa |
| Product Code | PCO4002 |
| CAS # | 223747-87-3 |
| INCI Name | Argania spinosa (Argan) Kernel oil |

| | |
|---------------------------|---------------|
| Batch # | 40022311 |
| Manufacturing Date | NOVEMBER 2023 |
| Best Before Date | OCTOBER 2025 |

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

| <u>PROPERTIES</u> | <u>SPECIFICATIONS</u> | <u>RESULTS</u> |
|--|---|----------------|
| Appearance | Clear light yellow to golden colored liquid | CONFORMS |
| Odour | Nearly odourless | CONFORMS |
| Refractive Index | 1.460 - 1.480 @ 20°C | 1.473 |
| Specific Gravity (g/mL) | 0.908 - 0.918 @ 20°C | 0.914 |
| Saponification Value (mgKOH/g) | 185 - 200 | 193 |
| Peroxide Value (meq O₂/kg) | Less than 10.0 | CONFORMS |
| Iodine Value (g I₂/100g) | 95 - 105 | 99 |
| Free Fatty Acids (% oleic) | Less than 0.5 | 0.1 |
| Acid Value (mgKOH/g) | Less than 1.0 | 0.2 |
| 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 | 10.00 – 15.00 | 11.10 |
| Stearic Acid | C18:0 | 4.00 – 7.00 | 4.40 |
| Oleic Acid | C18:1 (n-9) | 43.00 – 50.00 | 48.20 |
| Linoleic Acid | C18:2 (n-6) | 29.00 – 37.00 | 35.40 |

| <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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