



## CERTIFICATE OF ANALYSIS

|                       |                                    |
|-----------------------|------------------------------------|
| <b>Product Name</b>   | <b>ARGAN OIL</b>                   |
| <b>Botanical Name</b> | Argania spinosa                    |
| <b>Product Code</b>   | E306                               |
| <b>CAS #</b>          | 223747-87-3                        |
| <b>INCI Name</b>      | Argania spinosa (Argan) Kernel oil |

|                           |            |
|---------------------------|------------|
| <b>Batch #</b>            | 40022104   |
| <b>Manufacturing Date</b> | APRIL 2021 |
| <b>Best Before Date</b>   | MARCH 2023 |

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

| <u>PROPERTIES</u>                            | <u>SPECIFICATIONS</u>   | <u>RESULTS</u> |
|--|---|----------------|
| <b>Appearance</b>                            | Clear light yellow to golden colored liquid                   | CONFORMS       |
| <b>Odour</b>                                 | Nearly odourless  | CONFORMS       |
| <b>Refractive Index</b>                      | 1.460 - 1.480 @ 20°C  | 1.472          |
| <b>Specific Gravity (g/mL)</b>               | 0.908 - 0.918 @ 20°C  | 0.912          |
| <b>Saponification Value (mgKOH/g)</b>        | 185 - 200   | 193            |
| <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>   | 95 - 105  | 99             |
| <b>Free Fatty Acids (% oleic)</b>            | Less than 0.5   | 0.1            |
| <b>Acid Value (mgKOH/g)</b>                  | Less than 1.0   | 0.2            |
| <b>Solubility</b>                            | 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             | 11.80              |
| Stearic Acid      | C18:0          | 4.00 – 7.00               | 4.70               |
| Oleic Acid        | C18:1 (n-9)    | 43.00 – 50.00             | 47.30              |
| Linoleic Acid     | C18:2 (n-6)    | 29.00 – 37.00             | 34.40              |

| <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.**