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## **CERTIFICATE OF ANALYSIS**

|                       |                                      |
|-----------------------|--------------------------------------|
| <b>Product Name</b>   | <b>SAFFRON (KESAR) OIL</b>           |
| <b>Botanical Name</b> | Crocus sativus                       |
| <b>Product Code</b>   | PIO5012                              |
| <b>CAS #</b>          | 8022-19-3 ; 84604-17-1 and 8007-69-0 |
| <b>EINECS #</b>       | 283-295-0 and 291-063-5              |

|                           |            |
|---------------------------|------------|
| <b>Batch #</b>            | 50122505   |
| <b>Manufacturing Date</b> | MAY 2025   |
| <b>Best Before Date</b>   | APRIL 2027 |

|                          |  |
|--------------------------|--|
| <b>Extraction Method</b> | Extraction of Crocus sativus (Saffron) threads in Prunus amygdalus dulcis (Sweet Almond) Oil |
| <b>Quality</b>           | 100% Pure and Natural  |

| <b><u>PROPERTIES</u></b>              | <b><u>SPECIFICATIONS</u></b>                                     | <b><u>RESULTS</u></b> |
|---------------------------------------|--|-----------------------|
| <b>Appearance</b>                     | Reddish orange colored liquid                                    | CONFORMS              |
| <b>Odour</b>                          | Characteristic deep, musky, earthy aroma                         | CONFORMS              |
| <b>Refractive Index</b>               | 1.460 - 1.480 @ 20°C   | 1.472                 |
| <b>Specific Gravity (g/mL)</b>        | 0.900 - 0.930 @ 20°C   | 0.915                 |
| <b>Saponification Value (mgKOH/g)</b> | 180 - 200  | 193                   |
| <b>Solubility</b>                     | Soluble in cosmetic esters and fixed oils;<br>Insoluble in water | CONFORMS              |

|                 |                            |
|-----------------|----------------------------|
| <b>Comments</b> | Odour quality is excellent |
|-----------------|----------------------------|

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| <u>MICROBIAL ANALYSIS</u>                 | <u>SPECIFICATIONS</u> | <u>STANDARDS</u> | <u>RESULTS</u> |
|---|-----------------------|------------------|----------------|
| <b>Aerobic Mesophilic Bacterial Count</b> | < 100 CFU/g           | ISO 21149        | CONFORMS       |
| <b>Yeast and Mould</b>                    | < 10 CFU/g            | ISO 16212        | CONFORMS       |
| <b>Candida albicans</b>                   | ABSENT / 1g           | ISO 18416        | CONFORMS       |
| <b>Escherichia coli</b>                   | ABSENT / 1g           | ISO 21150        | CONFORMS       |
| <b>Pseudomonas aeruginosa</b>             | ABSENT / 1g           | ISO 22717        | CONFORMS       |
| <b>Staphylococcus aureus</b>              | ABSENT / 1g           | ISO 22718        | CONFORMS       |

| <u>HEAVY METAL TESTS</u>          | <u>SPECIFICATIONS</u> | <u>STANDARDS</u> | <u>RESULTS</u> |
|-----------------------------------|-----------------------|------------------|----------------|
| <b>Lead: Pb (mg/kg or ppm)</b>    | < 10 ppm              | na               | CONFORMS       |
| <b>Arsenic: As (mg/kg or ppm)</b> | < 2 ppm               | na               | CONFORMS       |
| <b>Mercury: Hg (mg/kg or ppm)</b> | < 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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