

CERTIFICATE OF ANALYSIS

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| Product Name | ARNICA OIL |
| Botanical Name | Arnica montana |
| Product Code | PIO5001 |
| INCI Name | Arnica montana Flower Extract, Helianthus annus (Sunflower) Seed Oil |
| CAS # | 68990-11-4 and 8001-21-6 |
| EINECS # | 273-579-2 and 232-273-9 |

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|---------------------------|---------------|
| Batch # | 50012212 |
| Manufacturing Date | DECEMBER 2022 |
| Best Before Date | NOVEMBER 2024 |

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|--------------------------|---|
| Extraction Method | Infusion of dried flower heads of Arnica montana in Helianthus annus (Sunflower) seed oil |
| Quality | 100% Pure and Natural |

| <u>PROPERTIES</u> | <u>SPECIFICATIONS</u> | <u>RESULTS</u> |
|---------------------------------------|--|----------------|
| Appearance | Yellow to amber green colored liquid | CONFORMS |
| Odour | Characteristic slight aroma | CONFORMS |
| Refractive Index | 1.460 - 1.480 @ 20°C | 1.472 |
| Specific Gravity (g/mL) | 0.900 - 0.930 @ 20°C | 0.922 |
| Saponification Value (mgKOH/g) | 180 - 200 | 190 |
| Solubility | Soluble in cosmetic esters and fixed oils; Insoluble in water | CONFORMS |

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| Comments | Odour quality is excellent |
|-----------------|----------------------------|

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| <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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