

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	<b>CALENDULA (MARIGOLD) OIL</b>
<b>Botanical Name</b>	Calendula officinalis
<b>Product Code</b>	PIO5003
<b>INCI Name</b>	Calendula officinalis Flower infused in Helianthus annuus Seed Oil
<b>CAS#</b>	84776-23-8, 70892-20-5 and 8001-21-6
<b>EINECS#</b>	283-949-5 and 232-273-9

<b>Batch #</b>	50031811
<b>Manufacturing Date</b>	JANUARY 2021
<b>Best Before Date</b>	DECEMBER 2022

<b>Extraction Method</b>	Infusion of Calendula (Marigold) flowers in Helianthus annuus (Sunflower) seed oil
<b>Quality</b>	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
<b>Appearance</b>	Yellow to deep orange colored liquid	CONFORMS
<b>Odour</b>	Characteristic herbaceous-green, floral odour	CONFORMS
<b>Refractive Index</b>	1.460 - 1.480 @ 20°C	1.468
<b>Specific Gravity (g/mL)</b>	0.900 - 0.930 @ 20°C	0.919
<b>Saponification Value (mgKOH/g)</b>	180 - 200	190
<b>Solubility</b>	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

<b>Comments</b>	Odor 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

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