



### CERTIFICATE OF ANALYSIS (COA)

<b>Product Name</b>	<b>CALENDULA (MARIGOLD) OIL</b>
<b>Botanical Name</b>	Calendula officinalis
<b>INCI Name</b>	Calendula Officinalis Flower Extract and Helianthus Annus (Sunflower) 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>	50032311
<b>Manufacturing Date</b>	NOVEMBER 2023
<b>Best Before Date</b>	OCTOBER 2025

<b>Extraction Method</b>	Infusion of Calendula (Marigold) flowers in Helianthus annuus (Sunflower) Seed Oil
<b>Standardization</b>	33.3% dry herb/L of oil (i.e., 333 g herb per 1000 ml of 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 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	186
<b>Solubility</b>	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

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

<b><u>MICROBIAL ANALYSIS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>	<b><u>RESULTS</u></b>
<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

<b><u>HEAVY METAL TESTS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>	<b><u>RESULTS</u></b>
<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.**