



REMILA s.r.o., Cukrovarská 320/18, Trenčianska Teplá, 914 01, 0917 492 545 , [www.aromasperky.sk](http://www.aromasperky.sk)

### **CERTIFICATE OF ANALYSIS (COA)**

|                       |                                       |
|-----------------------|---------------------------------------|
| <b>Product Name</b>   | <b>GINGER OIL</b>                     |
| <b>Botanical Name</b> | Zingiber officinale                   |
| <b>Product Code</b>   | EO085                                 |
| <b>CAS #</b>          | 8007-08-7 ; 84696-15-1                |
| <b>FEMA #</b>         | 2522                                  |
| <b>EINECS #</b>       | 283-634-2                             |
| <b>INCI Name</b>      | Zingiber Officinale (Ginger) Root Oil |

|                            |                               |
|----------------------------|-------------------------------|
| <b>Part Used</b>           | Rhizomes                      |
| <b>Extraction Method</b>   | Steam Distilled Essential Oil |
| <b>Quality</b>             | 100% Pure and Natural         |
| <b>Note Classification</b> | Middle Note                   |

| <b><u>PROPERTIES</u></b>       | <b><u>SPECIFICATIONS</u></b>                                     | <b><u>RESULTS</u></b> |
|--------------------------------|--|-----------------------|
| <b>Appearance</b>              | Pale yellow to a orange brown colored liquid                     | CONFORMS              |
| <b>Odour</b>                   | Warm, smooth, sweet, spicy aroma reminiscent of fresh cut ginger | CONFORMS              |
| <b>Refractive Index</b>        | 1.480 - 1.495 @ 20°C   | 1.487                 |
| <b>Specific Gravity (g/mL)</b> | 0.865 - 0.894 @ 20°C   | 0.881                 |
| <b>Optical Rotation (°)</b>    | -52° to -10°   | CONFORMS              |
| <b>Solubility</b>              | Soluble in alcohols and fixed oils; Insoluble in water           | CONFORMS              |

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



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| <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.**