



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

|                       |                                    |
|-----------------------|------------------------------------|
| <b>Product Name</b>   | <b>ORANGE OIL, SWEET</b>           |
| <b>Botanical Name</b> | Citrus sinensis                    |
| <b>Product Code</b>   | E204                               |
| <b>CAS #</b>          | 8008-57-9 ; 8028-48-6              |
| <b>FEMA #</b>         | 2825                               |
| <b>EINECS #</b>       | 232-433-8                          |
| <b>INCI Name</b>      | Citrus sinensis (Sweet Orange) Oil |

|                           |                |
|---------------------------|----------------|
| <b>Batch #</b>            | 11202010       |
| <b>Manufacturing Date</b> | OCTOBER 2020   |
| <b>Best Before Date</b>   | SEPTEMBER 2022 |

|                            |                            |
|----------------------------|----------------------------|
| <b>Part Used</b>           | Peels                      |
| <b>Extraction Method</b>   | Cold Pressed Essential Oil |
| <b>Quality</b>             | 100% Pure and Natural      |
| <b>Note Classification</b> | Top Note                   |

| <b><u>PROPERTIES</u></b>       | <b><u>SPECIFICATIONS</u></b>                           | <b><u>RESULTS</u></b> |
|--------------------------------|--------------------------------------------------------|-----------------------|
| <b>Appearance</b>              | Pale yellow to orange colored liquid                   | CONFORMS              |
| <b>Odour</b>                   | Sweet, fresh, citrus, characteristic aroma             | CONFORMS              |
| <b>Refractive Index</b>        | 1.468 - 1.477 @ 20°C                                   | 1.472                 |
| <b>Specific Gravity (g/mL)</b> | 0.840 - 0.857 @ 20°C                                   | 0.848                 |
| <b>Optical Rotation (°)</b>    | +85° to +100°                                          | 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.

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