

## CERTIFICATE OF ANALYSIS

|                       |                               |
|-----------------------|-------------------------------|
| <b>Product Name</b>   | <b>Mace Essential Oil</b>     |
| <b>Botanical Name</b> | Myristica fragrans            |
| <b>Product Code</b>   | PEO1104                       |
| <b>CAS #</b>          | 8007-12-3 ; 84082-68-8        |
| <b>INCI Name</b>      | Myristica Fragrans (Mace) Oil |

|                           |               |
|---------------------------|---------------|
| <b>Batch #</b>            | 11042503      |
| <b>Manufacturing Date</b> | MARCH 2025    |
| <b>Best Before Date</b>   | FEBRUARY 2028 |

|                          |                               |
|--------------------------|-------------------------------|
| <b>Part Used</b>         | Dried Aril                    |
| <b>Extraction Method</b> | Steam Distilled Essential Oil |
| <b>Quality</b>           | 100% Pure and Natural         |

| <u>PROPERTIES</u>              | <u>SPECIFICATIONS</u>                                                  | <u>RESULTS</u> |
|--------------------------------|------------------------------------------------------------------------|----------------|
| <b>Appearance</b>              | Pale yellow to amber colored liquid                                    | CONFORMS       |
| <b>Odour</b>                   | Fresh, warm, sweet-spicy odour<br>reminiscent of freshly grated nutmeg | CONFORMS       |
| <b>Refractive Index</b>        | 1.470 - 1.490 @ 20°C                                                   | 1.480          |
| <b>Specific Gravity (g/mL)</b> | 0.870 - 0.930 @ 20°C                                                   | 0.895          |
| <b>Optical Rotation (°)</b>    | +8° to +41°                                                            | CONFORMS       |
| <b>Solubility</b>              | Soluble in alcohols and fixed oils;<br>Insoluble in water              | CONFORMS       |

| <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       |

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

| <u>HEAVY METAL TESTS</u>          | <u>SPECIFICATIONS</u> | <u>STANDARDS</u> | <u>RESULTS</u> |
|-----------------------------------|-----------------------|------------------|----------------|
| <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 36 months, quality should be checked before use.

**As it is electronically generated document, hence no signature required.**

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