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## CERTIFICATE OF ANALYSIS (COA)

|                       |                                      |
|-----------------------|--------------------------------------|
| <b>Product Name</b>   | <b>WHITE PEPPER ESSENTIAL OIL</b>    |
| <b>Botanical Name</b> | Piper nigrum                         |
| <b>Product Code</b>   | PEO1178                              |
| <b>CAS #</b>          | 8006-82-4 ; 84929-41-9               |
| <b>FEMA #</b>         | 2851                                 |
| <b>EINECS #</b>       | 284-524-7                            |
| <b>INCI Name</b>      | Piper Nigrum (White Pepper) Seed Oil |

|                           |               |
|---------------------------|---------------|
| <b>Batch #</b>            | 11782301      |
| <b>Manufacturing Date</b> | JANUARY 2023  |
| <b>Best Before Date</b>   | DECEMBER 2025 |

|                            |                               |
|----------------------------|-------------------------------|
| <b>Part Used</b>           | Ripe Peppercorn Berries       |
| <b>Extraction Method</b>   | Steam Distilled Essential Oil |
| <b>Quality</b>             | 100% Pure and Natural         |
| <b>Note Classification</b> | Middle to Top Note            |

| <u>PROPERTIES</u>              | <u>SPECIFICATIONS</u>                                  | <u>RESULTS</u> |
|--------------------------------|--|----------------|
| <b>Appearance</b>              | Colorless to pale yellow colored liquid                | CONFORMS       |
| <b>Odour</b>                   | Fresh, woody, warm, radiant spicy aroma                | CONFORMS       |
| <b>Refractive Index</b>        | 1.461 - 1.495 @ 20°C                                   | 1.481          |
| <b>Specific Gravity (g/mL)</b> | 0.860 - 0.884 @ 20°C                                   | 0.874          |
| <b>Optical Rotation (°)</b>    | -16° to +1°  | 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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| <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       |

| <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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