

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

|                       |                                      |
|-----------------------|--------------------------------------|
| <b>Product Name</b>   | <b>AJOWAN (AJWAIN) ESSENTIAL OIL</b> |
| <b>Botanical Name</b> | Trachyspermum ammi                   |
| <b>CAS #</b>          | 8001-99-8 ; 91745-13-0               |
| <b>EINECS #</b>       | 294-681-3                            |
| <b>INCI Name</b>      | Trachyspermum ammi (Ajowan) Oil      |

|                            |                               |
|----------------------------|-------------------------------|
| <b>Part Used</b>           | Seeds                         |
| <b>Extraction Method</b>   | Steam Distilled 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 brownish colored liquid                   | CONFORMS              |
| <b>Odour</b>                   | Spicy, herbaceous, medicinal odour, reminiscent of thyme | CONFORMS              |
| <b>Refractive Index</b>        | 1.470 - 1.520 @ 20°C                                     | 1.497                 |
| <b>Specific Gravity (g/mL)</b> | 0.850 - 0.930 @ 25°C                                     | 0.895                 |
| <b>Optical Rotation (°)</b>    | 0° to +5°  | CONFORMS              |
| <b>Solubility</b>              | Soluble in alcohols and fixed oils; Insoluble in water   | CONFORMS              |

| <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              |

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