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# Certificate of Analysis

## Caraway Seed Essential Oil (Organic)

Carum carvi – Seeds | Steam Distillation

### General Description

|                            |                                  |
|----------------------------|----------------------------------|
| <b>Common Name:</b>        | Caraway Seed                     |
| <b>Latin Name:</b>         | Carum carvi                      |
| <b>Country of Origin:</b>  | Hungary                          |
| <b>Cultivation Method:</b> | Organic                          |
| <b>SKU #:</b>              | 120                              |
| <b>Lot #:</b>              | 5-2014g                          |
| <b>Type:</b>               | Essential Oil                    |
| <b>Extraction Method:</b>  | Steam Distillation               |
| <b>Plant Part:</b>         | Seeds                            |
| <b>Use:</b>                | Aromatherapy / External Use Only |
| <b>Manufacturing Date:</b> | 8/2023                           |

### Physical & Chemical Specifications

| Parameter                       | Typical Value |
|---------------------------------|---------------|
| <b>Specific Gravity (20°C):</b> | 0.901 – 0.920 |
| <b>Refractive Index (20°C):</b> | 1.484 – 1.492 |
| <b>Optical Rotation (20°C):</b> | +70° to +80°  |

### Sensory Profile

| Feature                     | Description                                     |
|-----------------------------|---|
| <b>Physical Appearance:</b> | Clear, mobile liquid                            |
| <b>Color:</b>               | Colorless to pale brown-yellow                  |
| <b>Odor:</b>                | Warm, spicy, herbaceous, characteristic caraway |
| <b>Solubility:</b>          | Soluble in alcohol; insoluble in water          |

## Special Use Instructions

|                                  |   |
|----------------------------------|---|
| <b>Special Use Instructions:</b> | For external use only. Dilute properly before skin application. Avoid contact with eyes and mucous membranes. Keep out of reach of children. Do not use during pregnancy without consulting a healthcare professional. GHS: Flammable liquid (H226); harmful if swallowed (H302); aspiration hazard (H304); causes skin irritation (H315); may cause allergic skin reaction (H317); very toxic to aquatic life with long lasting effects (H410) — do not allow product to reach waterways or drains. Contains d-Limonene (skin sensitizer) — perform patch test before topical use. Keep away from heat, sparks and open flames. Flash point: 55°C. |
|----------------------------------|---|

## Primary Constituents

| Constituent              | Analytical Result (GC-MS/STD) |
|--------------------------|-------------------------------|
| Carvone                  | 55.41%                        |
| Limonene (d-Limonene)    | 45.33%                        |
| Terpinolene              | 0.015%                        |
| Linalool                 | 0.013%                        |
| beta-Caryophyllene       | 0.005%                        |
| Pinenes                  | 0.006%                        |
| Other minor constituents | Balance                       |

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*Disclaimer: This Essential Oil is 100% pure and natural, free from artificial ingredients or adulteration of any kind. Original Swiss Aromatics stands behind the quality of this product and has provided the most thorough and accurate information available.*

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