# **CERTIFICATE of ANALYSIS** (COA)

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| **COMMON NAME** | Cardamom CO2 |
| **LATIN NAME** | *Elettaria cardamomum* |
| **COUNTRY OF ORIGIN** | Guatemala |
| **CULTIVATION METHOD** | Conventional |
| **TYPE** | CO2 Total Extract |
| **EXTRACTION METHOD** | Supercritical Fluid Extraction |
| **PLANT PART** | Whole Fruit |
| **USE** | Aromatherapy, Natural Perfumery |

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| **SKU** | 145 |
| **LOT #** | 29 |
| **MANUFACTURING DATE** | April 2025 |
| **BEST BY DATE** | April 2030 |

| | **SPECIFICATIONS (Range)** | |
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| **SPECIFIC GRAVITY @20˚C** | 0.924 – 0.944 | 0.9374 |
| **REFRACTIVE INDEX @20˚C** | 1.466 – 1.473 | 1.4673 |
| **OPTICAL ROTATION @20˚C** | *na* | *na* |

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| **PHYSICAL APPEARANCE** | Transparent liquid | *Conforms* |
| **COLOR** | Light yellow to Brown | *Conforms* |
| **ODOR** | Spicy-sweet, warm, highly aromatic medicinal aroma with a balsamic-woody drydown. | *Conforms* |
| **SOLUBILITY** | Soluble in alcohol and fixed oils | |
| **SPECIAL USE INSTRUCTIONS** | Dilute before use | |

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| **PRIMARY CONSTITUENTS** | 1,8-Cineole, Terpinyl Acetate. |

| **COMPONENTS** | **% RANGE** | **%** | | **COMPONENTS** | **% RANGE** | **%** |
|---|---|---|---|---|---|---|
| TOTAL CONTENT OF ESSENTIAL OIL | 65-75 | 73.0 | | LINALOOL* | *na* | 3.0 |
| TERPINYL ACETATE | 35-55 | 50.0 | | ALPHA-TERPINEOL* | *na* | 2.3 |
| 1,8-CINEOLE | 20-45 | 24.9 | | LINALYL ACETATE* | *na* | 4.3 |
| ALPHA-PINENE / BETA-PINENE* | *na* | 1.0/.23 | | CITRAL (NERAL + GERANIAL)* | *na* | 0.68 |
| SABINENE | *na* | 3.2 | | GERANIOL* | *na* | 1.8 |
| BETA-MYRCENE[65] | *na* | 1.3 | | LIMONENE* | *na* | 1.6 |
| **EU Allergen [65]=Prop 65* | | | | | | |

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| **COMMENTS** | Odor quality is excellent. |

This CO2 Total Extract is a 100% pure and natural product. It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge. The analysis and statements herein constitute the most complete information available to Eden Botanicals. This product is guaranteed by Eden Botanicals to be of excellent quality.

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