



## CERTIFICATE of ANALYSIS (COA)

COMMON NAME	Cardamom CO2 - ORGANIC
LATIN NAME	<i>Elettaria cardamomum</i>
COUNTRY OF ORIGIN	Tanzania
CULTIVATION METHOD	Certified Organic (USDA, NOP)
TYPE	CO2 Total Extract
EXTRACTION METHOD	Supercritical Fluid Extraction
PLANT PART	Whole Fruit
USE	Aromatherapy, Natural Perfumery

SKU	150
LOT #	19
MANUFACTURING DATE	October 2020
BEST BY DATE	October 2025

	<b>SPECIFICATIONS (Range)</b>	
SPECIFIC GRAVITY @20°C	0.924 – 0.954	0.9474
REFRACTIVE INDEX @20°C	1.4680 – 1.4720	1.4686
OPTICAL ROTATION @20°C	na	na

PHYSICAL APPEARANCE	Transparent liquid	Conforms
COLOR	Light yellow to brown	Conforms
ODOR	Very rich, warm, aromatic sweet-spicy, at first penetrating, somewhat medicinal aroma with a balsamic-woody and increasingly sweet drydown; extremely tenacious.	Conforms
SOLUBILITY	Soluble in alcohol and fixed oils	
SPECIAL USE INSTRUCTIONS	Dilute before use	

PRIMARY CONSTITUENTS	Terpinyl Acetate, 1,8-Cineole.
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TOTAL CONTENT OF ESSENTIAL OIL	70-80%	71.1%				
<b>COMPOSITION OF VOLATILE COMPOUNDS:</b>						
<b>COMPONENTS</b>	<b>% RANGE</b>	<b>%</b>		<b>COMPONENTS</b>	<b>% RANGE</b>	<b>%</b>
TERPINYL ACETATE	30-50	43.7		LIMONENE *	na	1.8
1,8-CINEOLE	20-45	26.2		BETA-MYRCENE <sup>65</sup>	na	1.8
ALPHA-PINENE / BETA-PINENE *	na	1.1/0.30		ALPHA-TERPINEOL *	na	1.3
LINALYL ACETATE *	na	7.6		CITRAL (NERAL+GERANIAL) *	na	0.71 (0.27+0.44)
SABINENE	na	3.8		GERANIOL *	na	0.15
LINALOOL *	na	2.2		METHYL EUGENOL <sup>65</sup>	na	4.3 ppm
* EU Allergen <sup>65</sup> = Prop 65						

COMMENTS	Odor quality is excellent.
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This CO2 Extract is a 100% pure and natural product and 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.

Eden Botanicals

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