



CERTIFICATE of ANALYSIS (COA)

COMMON NAME	Cardamom - Organic
LATIN NAME	<i>Elettaria cardamomum</i>
COUNTRY OF ORIGIN	Guatemala
CULTIVATION METHOD	Certified Organic (USDA, NOP)
TYPE	Essential Oil
EXTRACTION METHOD	Steam Distilled
PLANT PART	Whole Fruit
USE	Aromatherapy, Natural Perfumery

SKU	144
LOT #	15
MANUFACTURING DATE	May 2021
BEST BY DATE	May 2024

	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20°C	0.918 – 0.940	na
REFRACTIVE INDEX @20°C	1.450 – 1.470	1.4631
OPTICAL ROTATION @20°C	+22° to +41°	na

PHYSICAL APPEARANCE	Transparent liquid	Conforms
COLOR	Colorless to pale yellow	Conforms
ODOR	Fresh, spicy, with sweet woody undertones.	Conforms
SOLUBILITY	Soluble in alcohol and fixed oils	
SPECIAL USE INSTRUCTIONS	Dilute before use	

COMPONENTS	RANGE %	%	COMPONENTS	RANGE %	%
TERPENYL ACETATE	35-45	37.44	OCTYL ACETATE	na	0.08
1,8-CINEOLE	27-35	31.49	CIS-THUYANOL	na	0.32
LINALYL ACETATE	4-6	5.77	1-OCTANOL	na	0.06
SABINENE	3-5	4.74	BETA-ELEMENE	na	0.05
LINALOOL *	3-6	3.26	DELTA-TERPENYL ACETATE	na	0.17
LIMONENE *	na	2.71	DELTA-TERPINEOL	na	0.11
BETA-MYRCENE ⁶⁵	na	2.24	NERAL *	na	0.22
ALPHA-PINENE + ALPHA-THUYENE	na	1.97	GERANIAL *	na	0.43
ALPHA-TERPINEOL	na	1.52	BETA-SELINENE	na	0.31
TERPINENE-4-OL	na	0.86	ALPHA-SELINENE	na	0.09
ALPHA-TERPINENE	na	0.09	GERANYL ACETATE	na	0.53
BETA-PINENE	na	0.46	TERPENIC ACETATE	na	0.08
GAMMA-TERPINENE	na	0.19	GAMMA-CADINENE	na	0.10
TRANS-BETA-OCIMENE	na	0.08	GERANYL PROPIONATE	na	0.12
P-CYMENE	na	0.26	GERANIOL *	na	0.74
TERPINOLENE	na	0.23	NEROLIDOL	na	0.80

OCTANAL	na	0.09		FARNESOL *	na	0.08
TRANS-THUYANOL	na	0.55				
* EU Allergen ⁶⁵ =Prop 65						

COMMENTS	Odor quality is excellent.
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This Essential Oil 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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