CERTIFICATE of ANALYSIS (COA)

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

SKU	145
LOT #	24
MANUFACTURING DATE	September 2021
BEST BY DATE	September 2026

	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20˚C	0.924 – 0.944	0.9393
REFRACTIVE INDEX @20˚C	1.466 – 1.473	1.4705
OPTICAL ROTATION @20˚C	*na*	*na*

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	

PRIMARY CONSTITUENTS	1,8-Cineole, Terpinyl Acetate.

COMPONENTS	**% RANGE**	**%**		**COMPONENTS**	**% RANGE**	**%**
TOTAL CONTENT OF ESSENTIAL OIL	65-75	71.8		LINALOOL*	*na*	2.5
TERPINYL ACETATE	35-55	45.7		ALPHA-TERPINEOL	*na*	2.1
1,8-CINEOLE	20-45	22.8		LINALYL ACETATE	*na*	6.7
ALPHA-PINENE / BETA-PINENE	*na*	12/0.36		CITRAL (NERAL + GERANIAL) *	*na*	0.82 (0.26+0.56)
SABINENE	*na*	4		GERANIOL*	*na*	0.81
BETA-MYRCENE[65]	*na*	1.9		LIMONENE*	*na*	1.9
**EU Allergen [65]=Prop 65*						

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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