



CERTIFICATE of ANALYSIS (COA)

Cardamom CO2 Extract

COMMON NAME	Cardamom CO2
LATIN NAME	<i>Elettaria cardamomum</i>
COUNTRY OF ORIGIN	India
CULTIVATION METHOD	Conventional
TYPE	CO2 Total Extract
EXTRACTION METHOD	Super Critical Fluid Extraction
PLANT PART	Whole Fruit
USE	Aromatherapy, Natural Perfumery

SKU	
LOT #	
MANUFACTURING DATE	
BEST BY DATE	

	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20°C	0.924 – 0.944	0.9345
REFRACTIVE INDEX @20°C	1.466 – 1.473	1.4695
OPTICAL ROTATION @20°C	na	na

PHYSICAL APPEARANCE	Clear liquid	Conforms
COLOR	Brown	Conforms
ODOR	Retains the aroma of fresh cardamom seeds	Conforms
SOLUBILITY	Soluble in alcohol and fixed oils	
SPECIAL USE INSTRUCTIONS	Dilute before use	

PRIMARY CONSTITUENTS	1,8-Cineole, Terpinyl Acetate, Linalyl Acetate, Sabinene, Linalool, Myrcene
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COMPONENTS	RANGE %	%	COMPONENTS	RANGE %	%
TOTAL CONTENT OF ESSENTIAL OIL	65 - 75	72.8	LINALOOL*	na	4.1
ALPHA-PINENE / - BETA-PINENE	na	1.3/ 0.33	ALPHA-TERPINEOL	na	2.9
SABINENE	na	4.9	LINALYL ACETATE	na	5.6
BETA-MYRCENE	na	2	CITRAL (NERAL+GERANIAL)	na	1.2

LIMONENE*	na	1.8		GERANIOL*	na	0.49
1.8 CINEOLE	20-45	22.6		TERPINYL ACETATE	30-50	45.4
* EU Allergen						

COMMENTS	Odor quality is excellent.
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This CO2 Total Extract is an authentic 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 Nutraceutex. This product is guaranteed by Nutraceutex to be of excellent quality.

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