



CERTIFICATE of ANALYSIS (COA)

Ginger CO2 Extract

COMMON NAME	Ginger CO2
LATIN NAME	Zingiber officinale
COUNTRY OF ORIGIN	India
CULTIVATION METHOD	Cultivated
TYPE	CO2 Total Extract
EXTRACTION METHOD	Super Critical Extraction
PLANT PART	Rhizome
USE	Aromatherapy, Natural Perfumery

SKU	
LOT #	
MANUFACTURING DATE	
BEST BY DATE	

	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20°C	0.950 – 0.980	0.9695
REFRACTIVE INDEX @20°C	1.5 – 1.51	1.5082
OPTICAL ROTATION @20°C	na	na

PHYSICAL APPEARANCE	Viscous liquid	Conforms
COLOR	Brown to brownish red	Conforms
ODOR	Spicy, warm, complex aroma	Conforms
SOLUBILITY	Soluble in alcohol and fixed oils	
SPECIAL USE INSTRUCTIONS	Dilute before use	

PRIMARY CONSTITUENTS	Alpha-Zingiberene, 6-Gingerol, Alpha-Farnesene
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COMPONENTS	RANGE %	%		COMPONENTS	RANGE %	%
ZINGERONE	na	0.02		NERAL/GERANIAL*	na	1.0/1.7
6-GINGEROL	na	15.9		AR-CURCUMENE	na	7.4
8-GINGEROL	na	3.4		ALPHA-ZINGIBERENE	20 - 45	32.7
6-SHOGAOL	na	2.2		ALPHA-FARNESENE	na	7.6
10-GINGEROL	na	5.5		BETA-BISABOLENE	na	6.3
8-SHOGAOL	na	0.48		SUM OF SHOGAOLS	na	2.9

10-SHOGAOL	na	0.16		SUM OF PUNGENT COMPOUNDS	25 - 33	27.8
SUM OF GINGEROLS	na	24.9		METHYL-EUGENOL	<0.01	na
SESQUIPHELLANDRENE	na	13.4		CONTENT OF ESSENTIAL OIL	38 - 46	39.8
* <i>EU Allergen</i>						

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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