



Certificate of Analysis

Cardamom CO2-se

Organically Produced - Germany, Batch #GE-58913

lab no. 26735

production: March 2019 retest: March 2024

raw material: Elettaria cardamomum - whole dried fruit, shell and seeds (from

country of origin of rawmaterial: Honduras country of origin of product: Germany

D/E - ratio: 18 - 22 kg raw material yield 1 kg product.

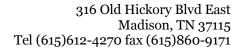
Sensory Check

feature	reference	result
Appearance:	pale yellow, clear liquid	meets
Odour:	characteristic	meets

Analytical Check

feature	method	limits	value unit
Content of essential oil	21.006.01, Distillation,	> 85	87,7 % (g/100g)
	gravimetric		
Composition of the volatile compounds:	GCMS, 100 % Method		
alpha Pinene /beta Pinene	GCMS, cardamom.met	n.s.	1,5 / 0,34 %
Sabinene	GCMS, cardamom.met	n.s.	4,9 %
beta Myrcene	GCMS, cardamom.met	n.s.	2,1 %
Limonene	GCMS, cardamom.met	n.s.	2,0 %
1,8 Cineol	GCMS, cardamom.met	20 - 45	23,0 %
Linalool	GCMS, cardamom.met	n.s.	4,2 %
alpha Terpineol	GCMS, cardamom.met	n.s.	2,8 %
Linalyl acetate	GCMS, cardamom.met	n.s.	6,5 %
Citral (Neral+Geranial)	GCMS, cardamom.met	n.s.	1,0 %
,			(0,25+0,79)
Geraniol	GCMS, cardamom.met	n.s.	0,79 %
Terpinyl acetate	GCMS, cardamom.met	35 - 55	43,4 %
Refractive index (20°C)	21.080.03,	1,4650 - 1,4685	1,4673
, ,	Abbe-Refractometer		
Density (20°C)	21.024.03, Pycnometer	0,910 - 0,980	0,9303 g/cm³
Monitoring of substances*:			
Methyleugenol in extract	GCMS	n.s.	n.d. (< 0,01) %
1,8 Cineol in extract	GCMS	n.s.	20,2 %
		n.s. = not spe	

^{*}Substances to be monitored according to "Arrêté du Juin 2014" laying down the list of plants, authorized in food supplements





orderdesk@naturesgift.com

Certificate of Analysis

Cardamom CO2-se

Organically Produced - Germany, Batch #GE-58913

	4.		
feature	method	limits	value unit

Storage conditions: Store in a cool, dry place!

Digitally signed by Anja Cawelius Reason: Quality Control Date: 2019.03.04 16:47:59 +01'00'

The product meets specifications no. 16.192.03/66.203.05; date of analysis: 2019.03.04 This computerized CoA has digital signature validated by Nature's Gift Aromatherapy.

The data in this report of analysis have been determined carefully and to the best of our knowledge. Depending on transport and storage conditions the indicated data can be subject to certain changes which are outside of our influence. Hence the report has not the meaning of a guaranty in the legal sense and does not dispense the customer from making his own quality control before using the product.