



CERTIFICATE of ANALYSIS (COA)

COMMON NAME	Cinnamon Bark - Organic
LATIN NAME	<i>Cinnamomum zeylanicum</i>
COUNTRY OF ORIGIN	Sri Lanka
CULTIVATION METHOD	Certified Organic (USDA, NOP)
TYPE	Essential Oil
EXTRACTION METHOD	Steam Distilled
PLANT PART	Bark
USE	Aromatherapy, Natural Perfumery

SKU	210
LOT #	17
MANUFACTURING DATE	January 2021
RETEST	January 2024

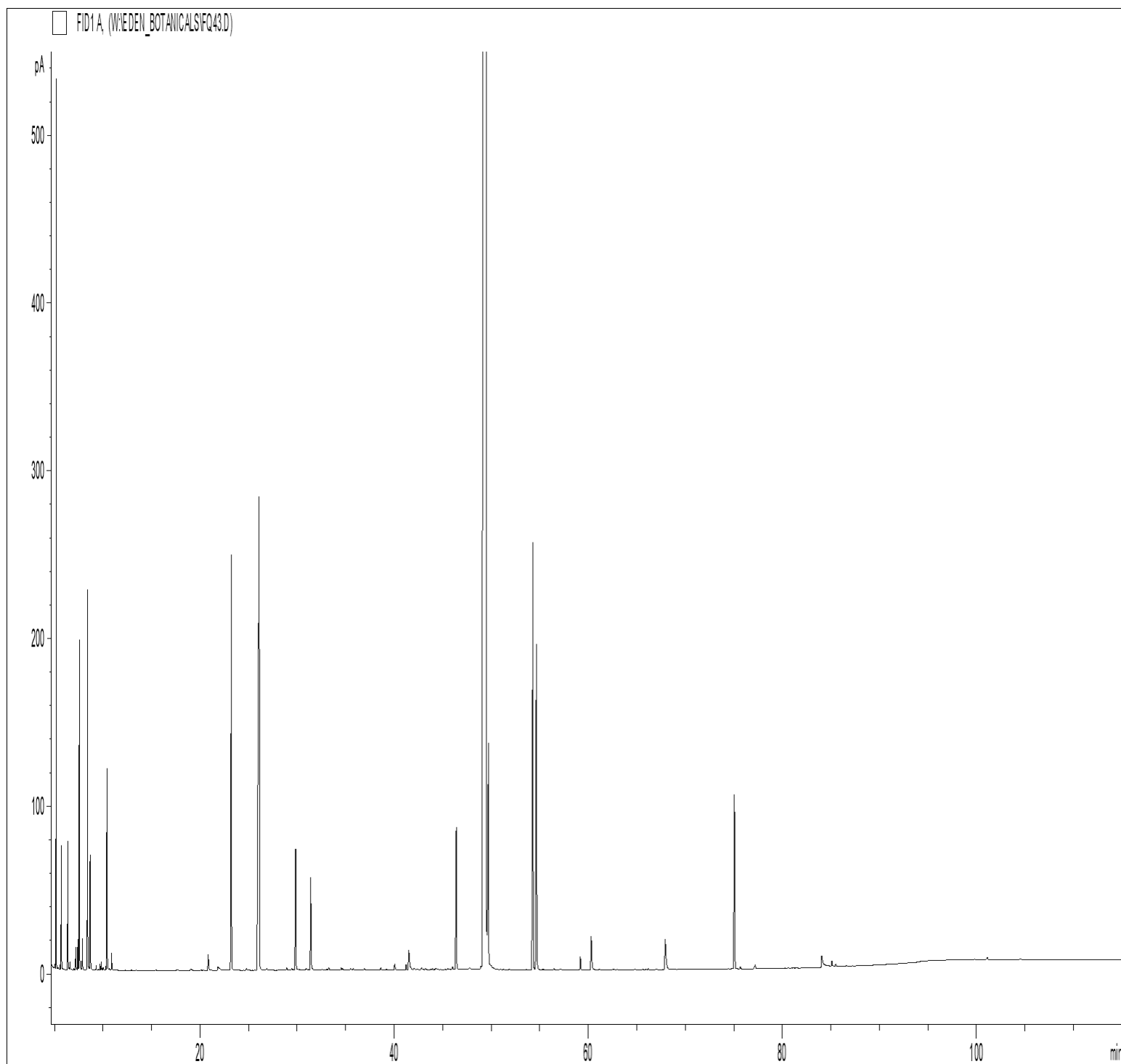
	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20°C	0.97 – 1.05	1.0149
REFRACTIVE INDEX @ 20°C	1.5 – 1.6	1.5816
OPTICAL ROTATION @20°C	-2 to +2°	-0.94°

PHYSICAL APPEARANCE	Transparent Liquid	Conforms
COLOR	Yellowish green to brownish	Conforms
ODOR	Powerful, warm, dry, spicy-sweet	Conforms
SOLUBILITY	Soluble in alcohol and fixed oils	
SPECIAL USE INSTRUCTIONS	Dilute before use	

PRIMARY CONSTITUENTS	E-Cinnamaldehyde, Caryophyllene(E-), E-Cinnamyl acetate
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THIRD PARTY LAB ANALYSIS (GCMS)

Chromatographic profile:



Identification results: ORGANIC CINNAMON BARK - BATCH N° 210 LOT 17

Peaks	RT (min)	Compound name	%	Internal Standard* (%)	Allergens (%)
1	5.04	TRICYCLEN	0.01		
2	5.16	alpha-PINENE	1.83	0.9 - 2.9	
3	5.20	alpha-THUYENE	0.27	0.1 - 0.3	
4	5.55	alpha-FENCHENE	0.02		
5	5.70	CAMPHENE	0.59		
6	6.36	beta-PINENE	0.54		
7	6.59	SABINENE	0.04		
8	7.19	delta3-CARENE	0.13		
9	7.40	beta-MYRCENE	0.14		
10	7.55	alpha-PHELLANDRENE	1.50	0.2 - 1.5	
11	7.87	alpha-TERPINENE	0.16		
12	8.40	LIMONENE	1.67	0.2 - 1.2	1.67
13	8.66	1,8-CINEOLE	0.66	0.3 - 3.1	
14		beta-PHELLANDRENE		0.3 - 1.8	
15	9.29	cis-beta-OCIMENE	0.03		
16	9.68	gamma-TERPINENE	0.03		
17	9.83	trans-beta-OCIMENE	0.04		
18	9.99	STYRENE	0.03		
19	10.29	m-CYMENE	0.02		
20	10.40	p-CYMENE	1.01	1.0 - 2.9	
21	10.66	ISOTERPINOLENE	0.02		
22	10.88	TERPINOLENE	0.11		
23	17.60	SESQUITERPENE	0.01		
24	19.05	SESQUITERPENE	0.02		
25	20.85	alpha-COPAENE	0.15	< 0.6	
26	21.84	BENZALDEHYDE	0.09		
27	23.24	LINALOOL	3.07	3.0 - 5.0	3.07
28	24.80	ISOCARYOPHYLLENE	0.02		
29	26.10	beta-CARYOPHYLLENE	6.35	3.5 - 7.0	
30	26.87	SESQUITERPENE	0.02		
31	28.93	ALLO-AROMADENDRENE	0.02		
32	29.46	ZONARENE	0.02		
33	29.85	alpha-HUMULENE	0.99		
34	30.93	gamma-MUUROLENE	0.03		
35	31.41	alpha-TERPINEOL	0.74		
36	32.59	beta-SELINENE	0.01		
37	33.27	beta-BISABOLENE	0.02		
38	34.55	delta-CADINENE	0.03		
39	34.71	gamma-CADINENE	0.02		
40	35.52	SESQUITERPENE	0.02		
41	35.79	alpha-BISABOLENE	0.02		
42	36.96	SABINOL ISOMER	0.02		
43	38.63	CALAMENENE	0.02		
44	40.06	SAFROLE	0.07		
45	41.24	AROMATIC COMPOUND	0.05		
46	41.51	Z-CINNAMALDEHYDE	0.30		0.30
47	42.05	PHENYLETHYL ALCOHOL	0.03		
48	42.34	AROMATIC COMPOUND	0.01		
49	42.83	alpha-CALACORENE	0.03		

50	43.24	TETRADECANAL	0.01		
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Peaks	RT (min)	Compound name	%	Internal Standard* (%)	Allergens (%)
51	43.94	BENZENE PROPANOL ACETATE	0.01		
52	44.30	BENZALDEHYDE, 2-METHOXY-	0.03		
53	46.02	ISOCARYOPHYLLENE EPOXIDE	0.03		
54	46.41	CARYOPHYLLENE OXIDE	1.26		
55	47.70	AROMATIC COMPOUND	0.01		
56	47.79	ALIPHATIC ESTER	0.02		
57	48.95	NEROLIDOL	0.03		
58	49.46	E-CINNAMALDEHYDE	65.40	60 - 70	65.40
59	49.72	ETHYL p-METHOXYCINNAMATE Mw=206	2.44		
60	50.00	AROMATIC COMPOUND	0.10		
61	54.30	CINNAMYL ACETATE	3.81	3.0 - 6.0	
62	54.66	EUGENOL	2.86	2.5 - 6.0	2.86
63	56.48	2-ACETYLCYCLOPENTANONE	0.02		
64	59.19	EUGENYL ACETATE	0.10	< 0.2	
65	60.31	CINNAMIC ALCOHOL	0.39		0.39
66	67.92	CINNAMALDEHYDE, 2-METOXY	0.45		
67	74.82	alpha-PHELLANDRENE DIMER ISOMER	0.02		
68	75.05	BENZYL BENZOATE	1.59	0.3 - 1.6	1.59
69	75.67	alpha-PHELLANDRENE DIMER ISOMER	0.02		
70	77.20	alpha-PHELLANDRENE DIMER ISOMER	0.05		
71	80.58	alpha-PHELLANDRENE DIMER ISOMER	0.01		
72	81.13	alpha-PHELLANDRENE DIMER ISOMER	0.01		
73	84.06	CINNAMIC ACID	0.23		
74	85.09	COMPOUND Mw=268	0.05		
75	85.49	COMPOUND Mw=268	0.02		
76	95.13	CONIFERALDEHYDE	0.02		
77	101.10	SESQUITERPENIC EPOXIDE	0.03		
		TOTAL	99.98		75.29

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.

Eden Botanicals
www.edenbotanicals.com
 info@edenbotanicals.com
 T: 1-707-509-0041 / F: 1-707-949-2526
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