



Aromatic Plant Research Center

We provide uncompromising
quality control for your products.

Customer : doTERRA International
Lot Number : 232985
Date Filled : 10/25/2023

Column : ZB5 (60 m length × 0.25 mm inner diameter × 0.25 µm film thickness)
Instrument : Shimadzu GCMS-QP2010 Ultra
Carrier gas : Helium 80 psi
Temperature ramp : 2 degrees celsius per minute up to 260-degrees celsius
Split ratio : 30:1
Sample preparation : 5%w/v solution with Dichloromethane.



Comments:

The analysis of this Cinnamon Bark lot revealed no contaminants or adulteration.
The sample meets the expected chemical profile for authentic essential oils of *Cinnamomum zeylanicum*.

Analysied by : Ambika Poudel
Reviewed by : Dr. Prabodh Satyal



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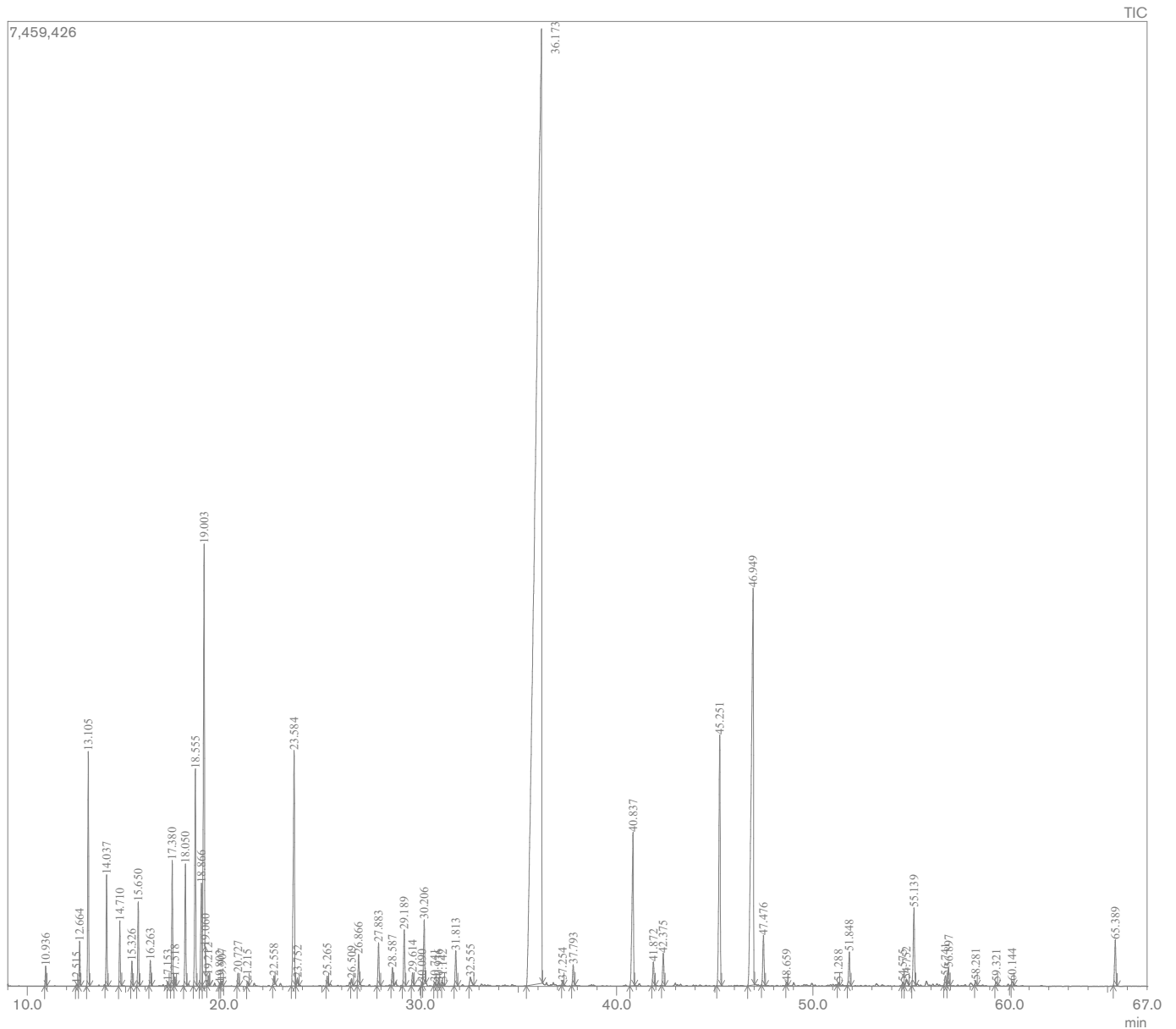
Cinnamon Bark Essential Oil

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Chromatogram



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Peak Report

Peak#	R.Time	Name	Area%
1	10.936	Styrene	0.15
2	12.515	Tricyclene	0.02
3	12.664	alpha-Thujene	0.37
4	13.105	alpha-Pinene	2.02
5	14.037	Camphene	0.95
6	14.710	Benzaldehyde	0.56
7	15.326	Sabinene	0.22
8	15.650	beta-Pinene	0.76
9	16.263	Myrcene	0.23
10	17.153	n-Octanal	0.04
11	17.380	alpha-Phellandrene	1.16
12	17.518	delta-3-Carene	0.08
13	18.050	alpha-Terpinene	1.17
14	18.555	para-Cymene	2.23
15	18.866	Limonene	1.34
16	19.003	beta-Phellandrene	5.31
17	19.060	1,8-Cineole	0.01
18	19.212	cis-beta-Ocimene	0.09
19	19.802	Salicylaldehyde	0.03
20	19.907	trans-beta-Ocimene	0.05
21	20.727	gamma-Terpinene	0.13
22	21.215	Acetophenone	0.04
23	22.558	Terpinolene	0.08
24	23.584	Linalool	3.00
25	23.752	2-Methyl butyl 2-methyl butyrate	0.09
26	25.265	cis-para-Menth-2-en-1-ol	0.10
27	26.509	trans-para-Menth-2-en-1-ol	0.08
28	26.866	Camphor	0.32
29	27.883	Benzenepropanal	0.47
30	28.587	Borneol	0.19
31	29.189	Terpinen-4-ol	0.62
32	29.614	Cryptone+Cymenol	0.14
33	30.090	4-cis-Decenal	0.03
34	30.206	alpha-Terpineol	0.72
35	30.741	cis-Sabinol	0.04
36	30.936	n-Decanal	0.03
37	31.142	trans-Piperitol	0.04
38	31.813	cis-Cinnamaldehyde	0.40
39	32.555	Hydro cinnamyl alcohol	0.14
40	36.173	trans-Cinnamaldehyde	58.19
41	37.254	Carvacrol	0.05
42	37.793	trans-Cinnamyl alcohol	0.23
43	40.837	Eugenol	2.19
44	41.872	Hydro cinnamyl acetate	0.28
45	42.375	alpha-Copaene	0.39
46	45.251	beta-Caryophyllene	3.33
47	46.949	trans-Cinnamyl acetate	8.63
48	47.476	alpha-Humulene	0.63
49	48.659	3-Butyl-1,2,4-cyclopentanetrione	0.03
50	51.288	delta-Cadinene	0.03
51	51.848	trans-ortho-Methoxy cinnamaldehyde	0.40
52	54.575	Sesquirosefuran	0.04
53	54.752	Caryophyllenyl alcohol	0.12
54	55.139	Caryophyllene oxide	1.00
55	56.741	Humulene epoxide II	0.12
56	56.897	Tetradecanal	0.21
57	58.281	Caryophylla-4(12),8(13)-dien-5-beta-ol	0.06
58	59.321	14-Hydroxy-9-epi-cis-caryophyllene	0.04
59	60.144	14-Hydroxy-9-epi-trans-caryophyllene	0.04
60	65.389	Benzyl benzoate	0.56
			100.00

