Aromatic Plant Research Center

We provide uncompromising
quality control for your products.

Customer	: doTERRA International
Lot Number	: 200099
Date Filled	: 01/09/2020

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 Melaleuca lot revealed no contaminants or adulteration.
The sample meets the expected chemical profile for authentic essential oils of Melaleuca alternifolia.

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

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Aromatic Plant Research Center
230 N 1200 E STE 100
Lehi, UT 84043
www.aromaticplant.org

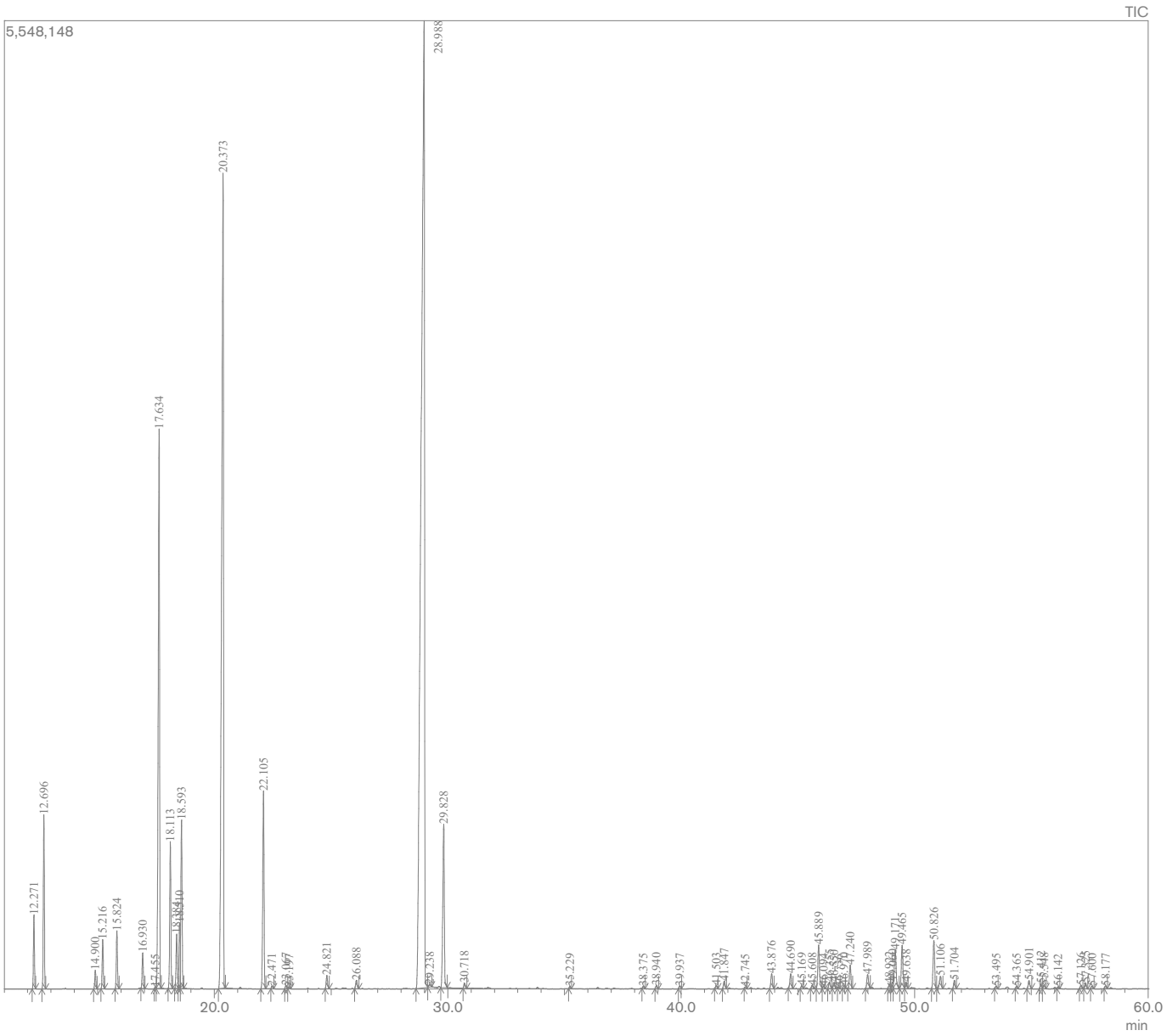
Melaleuca Essential Oil

Customer : doTERRA International

Lot Number : 200099

Date Filled : 01/09/2020

Chromatogram



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Peak Report

Peak#	R.Time	Name	Area%
1	12.271	alpha-Thujene	0.97
2	12.696	alpha-Pinene	2.34
3	14.900	Sabinene	0.26
4	15.216	beta-Pinene	0.72
5	15.824	Myrcene	0.84
6	16.930	alpha-Phellandrene	0.54
7	17.455	1,4-Cineole	0.02
8	17.634	alpha-Terpinene	10.04
9	18.113	para-Cymene	2.21
10	18.384	Limonene	0.88
11	18.510	beta-Phellandrene	1.02
12	18.593	1,8-cineole	2.66
13	20.373	gamma-Terpinene	19.75
14	22.105	Terpinolene	3.37
15	22.471	para-Cymenene	0.05
16	23.067	Linalool	0.05
17	23.197	trans-Sabinene hydrate	0.03
18	24.821	cis-para-Menth-2-en-1-ol	0.24
19	26.088	trans-para-Menth-2-en-1ol	0.17
20	28.988	Terpinen-4-ol	42.77
21	29.238	para-Cymen-8-ol	0.06
22	29.828	alpha-Terpineol	3.24
23	30.718	trans-Piperitol	0.09
24	35.229	trans-Ascaridol glycol	0.03
25	38.375	4-isopropyl-6-methyl-3-cyclohexene-1,2-diol	0.04
26	38.940	Bicylcoelemene	0.05
27	39.937	alpha-Cubebene	0.05
28	41.503	Isoledene	0.06
29	41.847	alpha-Copaene	0.15
30	42.745	beta-Elemene	0.03
31	43.876	alpha-Gurjunene	0.30
32	44.690	beta-Caryophyllene	0.31
33	45.169	cis-9-epi-Caryophyllene	0.06
34	45.608	alpha-Maaliene	0.06
35	45.889	Aromadendrene	1.01
36	46.094	alpha-Guaiene	0.04
37	46.355	Selina5,11-diene	0.14
38	46.550	trans-Murrola-3,5-diene	0.12
39	46.736	Velerana7,11-diene	0.02
40	46.970	alpha-Humulene	0.05
41	47.240	Alloaromadendrene	0.47
42	47.989	cis-Cadina-1(6),4-diene	0.30
43	48.922	delta-Selinene	0.09
44	49.060	beta-Selinene	0.13
45	49.171	Viridiflorene	0.94
46	49.465	Bicyclogermacrene	0.93
47	49.638	alpha-Muurolene	0.12
48	50.826	delta-Cadinene	0.98
49	51.106	Zonarene	0.30
50	51.704	trans-Cadine-1,4-diene	0.16
51	53.495	Viridifloral isomer	0.05
52	54.365	Spathulenol	0.04
53	54.901	Globulol	0.18
54	55.412	Viridiflorol	0.10
55	55.548	Cubeban-11-ol	0.07
56	56.142	Rosifoliol	0.02
57	57.126	Eudesmol isomer	0.06
58	57.325	1-epi-Cubenol	0.11
59	57.600	iso-Spathulenol	0.05
60	58.177	Cubenol	0.05
			100.00

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