

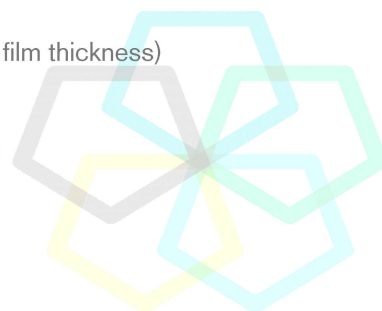


Aromatic Plant Research Center

We provide uncompromising
quality control for your products.

Customer : doTERRA International
Lot Number : 2314510
Date Filled : 05/25/2023

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 Lavender lot revealed no contaminants or adulteration.
The sample meets the expected chemical profile for authentic essential oils of *Lavandula angustifolia*.

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



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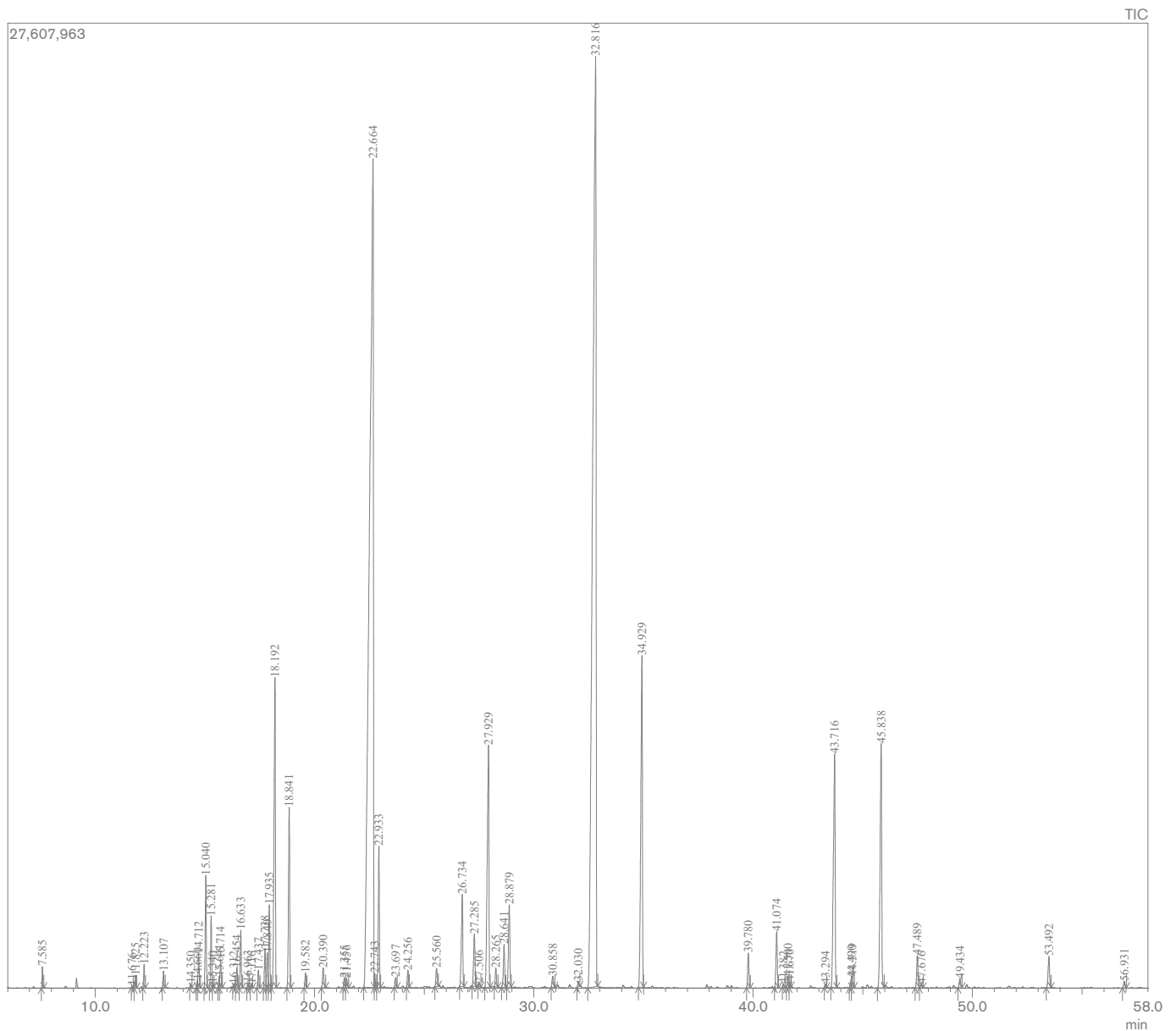
Lavender Essential Oil

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Chromatogram



Peak Report

Peak#	R.Time	Name	Area%
1	7.585	1-Methoxy hexane	0.14
2	11.676	Tricyclene	0.01
3	11.825	alpha-Thujene	0.11
4	12.223	alpha-Pinene	0.20
5	13.107	Camphene	0.15
6	14.350	Sabinene	0.04
7	14.660	beta-Pinene	0.05
8	14.712	1-Octen-3-ol	0.36
9	15.040	3-Octanone	1.15
10	15.281	Myrcene	0.70
11	15.340	trans-Dehydroxy linalool oxide	0.02
12	15.641	Butyl butanoate	0.10
13	15.714	3-Octanol	0.29
14	16.312	alpha-Phellandrene	0.03
15	16.454	delta-3-Carene	0.20
16	16.633	Hexyl acetate	0.58
17	16.963	alpha-Terpinene	0.05
18	17.116	meta-Cymene	0.04
19	17.437	para-Cymene	0.18
20	17.738	Limonene	0.42
21	17.840	beta-Phellandrene	0.37
22	17.935	1,8-Cineole	0.85
23	18.192	cis-beta-Ocimene	4.02
24	18.841	trans-beta-Ocimene	2.01
25	19.582	gamma-Terpinene	0.15
26	20.390	cis-Linalool oxide (furanoid)	0.24
27	21.355	Terpinolene	0.10
28	21.456	trans-Linalool oxide (furanoid)	0.13
29	22.664	Linalool	31.28
30	22.743	Hexyl propionate+Hotrienol	0.12
31	22.933	1-Octen-3-yl acetate	1.55
32	23.697	3-Octanol acetate	0.11
33	24.256	allo-Ocimene	0.19
34	25.560	Camphor	0.24
35	26.734	Lavandulol	1.27
36	27.285	Borneol	0.70
37	27.506	3-trans-5-cis-1,3,5-Undecatriene	0.04
38	27.929	Terpinen-4-ol	3.88
39	28.265	Cryptone	0.23
40	28.641	Hexyl butanoate	0.53
41	28.879	alpha-Terpineol	1.09
42	30.858	Nerol	0.14
43	32.030	Cumin aldehyde	0.07
44	32.816	Linalyl acetate	30.28
45	34.929	Lavandulyl acetate	5.10
46	39.780	Neryl acetate	0.42
47	41.074	Geranyl acetate	0.72
48	41.382	beta-Bourbonene	0.03
49	41.590	Hexyl hexanoate	0.14
50	41.670	7-epi-Sesquithujene	0.06
51	43.294	cis-alpha-Bergamotene	0.04
52	43.716	beta-Caryophyllene	3.95
53	44.490	Coumarin	0.09
54	44.519	trans-alpha-Bergamotene	0.13
55	45.838	trans-beta-Farnesene	3.75
56	47.489	Germacrene D	0.42
57	47.676	trans-beta-Bergamotene	0.05
58	49.434	gamma-Cadinene	0.13
59	53.492	Caryophyllene oxide	0.44
60	56.931	epi-alpha-Cadinol	0.09
			100.00

