Aromatic Plant Research Center

We provide uncompromising
quality control for your products.

Customer : doTERRA International
Lot Number : 230612
Date Filled : 03/02/2023

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 Oregano lot revealed no contaminants or adulteration.
The sample meets the expected chemical profile for authentic essential oils of Origanum vulgare.

Analysied 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

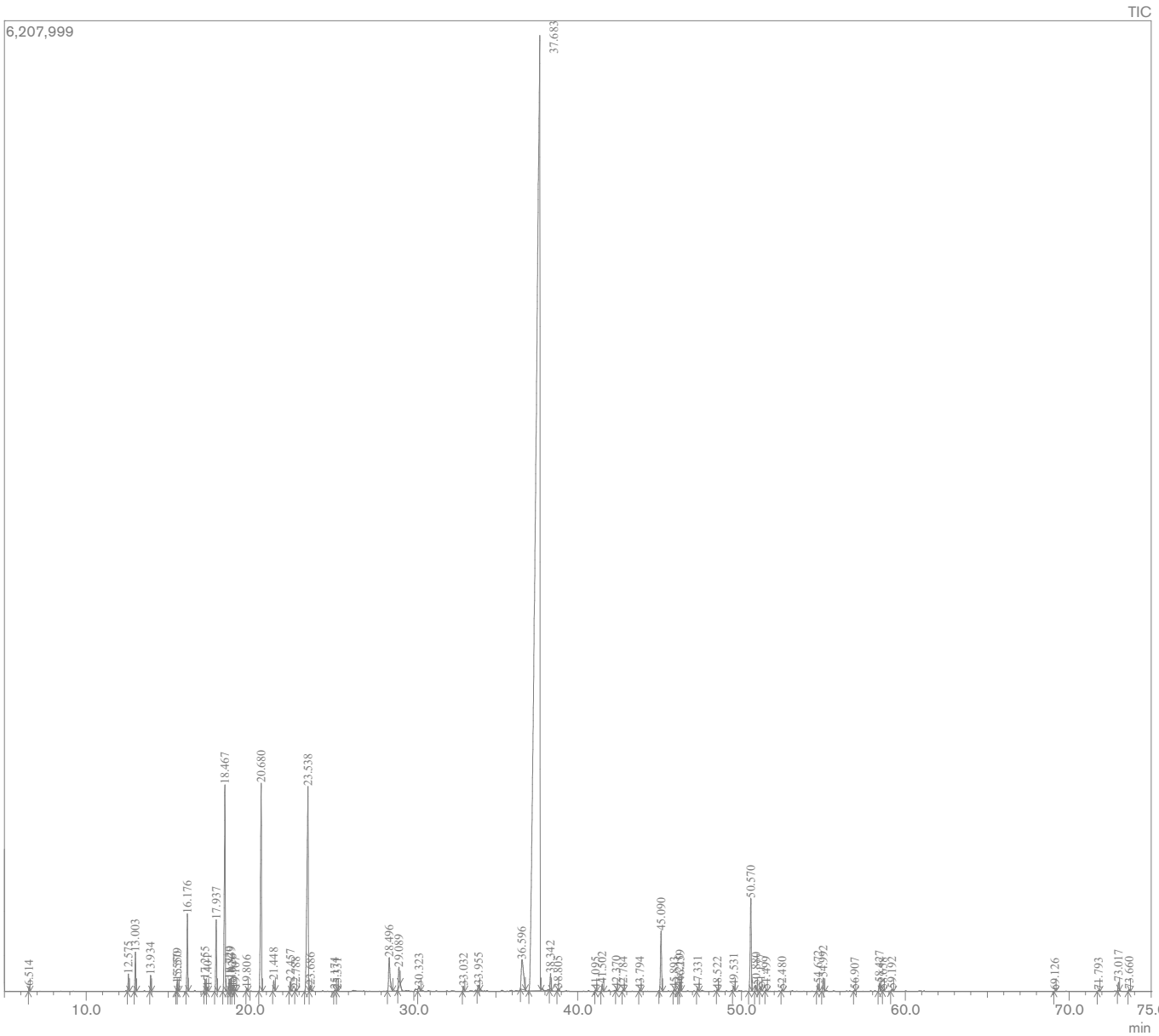
Oregano Essential Oil

Customer : doTERRA International

Lot Number : 230612

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Chromatogram



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Peak Report

Peak#	R.Time	Name	Area%
1	6.514	Methyl alpha-methyl butyrate	0.04
2	12.575	alpha-Thujene	0.22
3	13.003	alpha-Pinene	0.52
4	13.934	Camphene	0.21
5	15.550	beta-Pinene	0.06
6	15.579	1-Octen-3-ol	0.15
7	16.176	Myrcene	1.11
8	17.255	alpha-Phellandrene	0.18
9	17.401	delta-3-Carene	0.06
10	17.937	alpha-Terpinene	1.10
11	18.467	para-Cymene	3.57
12	18.729	Limonene	0.18
13	18.839	beta-Phellandrene	0.18
14	18.926	1,8-Cineole	0.06
15	19.107	cis-beta-Ocimene	0.03
16	19.806	trans-beta-Ocimene	0.05
17	20.680	gamma-Terpinene	3.88
18	21.448	cis-Sabinene hydrate	0.18
19	22.457	Terpinolene	0.16
20	22.788	para-Cymenene	0.03
21	23.538	Linalool	5.18
22	23.686	Hotrienol	0.13
23	25.174	cis-para-Menth-2-en-1-ol	0.02
24	25.331	alpha-Campholenal	0.02
25	28.496	Borneol	0.94
26	29.089	Terpinen-4-ol	0.41
27	30.323	alpha-Terpineol	0.12
28	33.032	Thymol methyl ether	0.09
29	33.955	Carvone	0.13
30	36.596	Thymol	1.25
31	37.683	Carvacrol	74.62
32	38.342	Methyl non-8-enoate	0.27
33	38.805	Oregano sesquiterpenoid 1	0.05
34	41.095	Neryl acetate	0.02
35	41.502	Thymol acetate	0.13
36	42.370	Geranyl acetate	0.04
37	42.784	beta-Bourbonene	0.03
38	43.794	Methyl eugenol	0.03
39	45.090	beta-Caryophyllene	1.17
40	45.893	trans-alpha-Bergamotene	0.03
41	46.210	Oregano sesquiterpenoid 2	0.05
42	46.259	Aromadendrene	0.16
43	47.331	alpha-Humulene	0.05
44	48.522	trans-Cadina-1(6),4-diene	0.02
45	49.531	Viridiflorene	0.09
46	50.570	beta-Bisabolene	1.83
47	50.880	gamma-Cadinene	0.12
48	51.177	delta-Cadinene	0.08
49	51.499	beta-Sesquiphellandrene	0.03
50	52.480	trans-alpha-Bisabolene	0.03
51	54.672	Spathulenol	0.15
52	54.992	Caryophyllene oxide	0.26
53	56.907	1,10-Di-epi-cubenol	0.02
54	58.427	epi-alpha-Cadinol	0.15
55	58.658	allo-Aromadendrene epoxide	0.02
56	59.192	alpha-Cadinol	0.04
57	69.126	Phytone	0.01
58	71.793	Oregano sesquiterpenoid 3	0.03
59	73.017	Oregano sesquiterpenoid 4	0.15
60	73.660	Oregano sesquiterpenoid 5	0.03
			100.00

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