



Aromatic Plant Research Center

We provide uncompromising
quality control for your products.

Customer : doTERRA International
Lot Number : 231581
Date Filled : 06/07/2023

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

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



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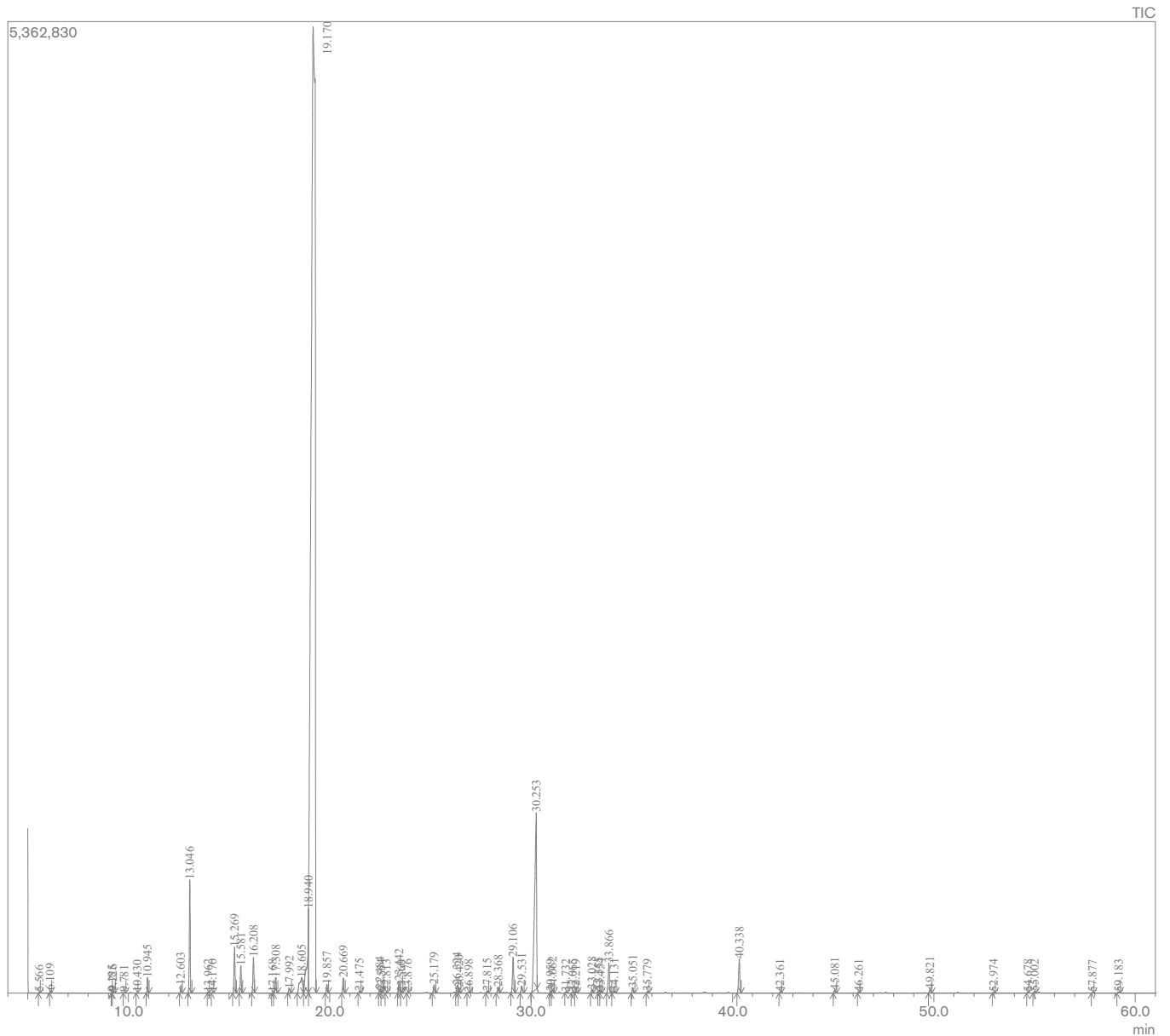
Eucalyptus Essential Oil

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Chromatogram



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Peak Report

Peak#	R.Time	Name	Area%
1	5.566	Pentanol	0.01
2	6.109	2,3-Butanediol	0.03
3	9.185	2-trans-Hexenal	0.01
4	9.226	3-cis-Hexenol	0.04
5	9.781	n-Hexanol	0.02
6	10.430	Bicyclo[3.1.0]hexane,6-isopropylidene	0.01
7	10.945	4-Methyl-2-pentyl acetate	0.25
8	12.603	alpha-Thujene	0.13
9	13.046	alpha-Pinene	2.01
10	13.962	Camphene	0.02
11	14.170	Tuja-2,4(10)-diene	0.01
12	15.269	Sabinene	0.89
13	15.581	beta-Pinene	0.53
14	16.208	Myrcene	0.71
15	17.168	Hexenyl acetate+Pseudolimonene	0.02
16	17.308	alpha-Phellandrene	0.36
17	17.992	alpha-Terpinene	0.13
18	18.605	para-Cymene	0.96
19	18.940	Limonene	2.16
20	19.170	1,8-Cineole	79.69
21	19.857	trans-beta-Ocimene	0.17
22	20.669	gamma-Terpinene	0.31
23	21.475	cis-Sabinene hydrate	0.04
24	22.484	Terpinolene	0.08
25	22.554	trans-Linalool oxide (furanoid)	0.02
26	22.813	para-Cymenene	0.02
27	23.442	Linalool	0.25
28	23.560	trans-Sabinene hydrate	0.01
29	23.876	Isopentyl isovalerate	0.02
30	25.179	cis-para-Menth-2-en-1-ol	0.19
31	26.324	trans-Pinocarveol	0.17
32	26.420	trans-para-Menth-2-en-1-ol	0.12
33	26.898	4-Isopropyl-3-cyclohexen-1-one	0.03
34	27.815	Pinocarvone	0.03
35	28.368	delta-Terpineol	0.15
36	29.106	Terpinen-4-ol	0.83
37	29.531	Cryptone	0.19
38	30.253	alpha-Terpineol	6.92
39	30.959	Verbenone	0.03
40	31.062	trans-Piperitol	0.08
41	31.732	trans-Carveol	0.02
42	32.065	Nerol	0.03
43	32.219	Citronellol	0.03
44	33.028	Neral	0.09
45	33.355	Cumin aldehyde	0.06
46	33.454	Carvone	0.04
47	33.866	Geraniol	0.72
48	34.131	Piperitone	0.05
49	35.051	Geranial	0.12
50	35.779	Phellandral	0.03
51	40.338	alpha-Terpinyl acetate	0.83
52	42.361	Geranyl acetate	0.02
53	45.081	beta-Caryophyllene	0.07
54	46.261	Aromadendrene	0.02
55	49.821	Bicyclogermacrene	0.10
56	52.974	alpha-Elemol	0.02
57	54.678	Spathulenol	0.02
58	55.002	Caryophyllene oxide	0.03
59	57.877	gamma-Eudesmol	0.02
60	59.183	alpha-Eudesmol	0.03
			100.00

