

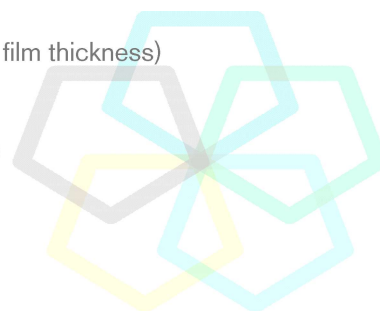


Aromatic Plant Research Center

We provide uncompromising
quality control for your products.

Customer : doTERRA International
Lot Number : 230611
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 Cilantro lot revealed no contaminants or adulteration.
The sample meets the expected chemical profile for authentic essential oils of *Coriandrum sativum*.

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



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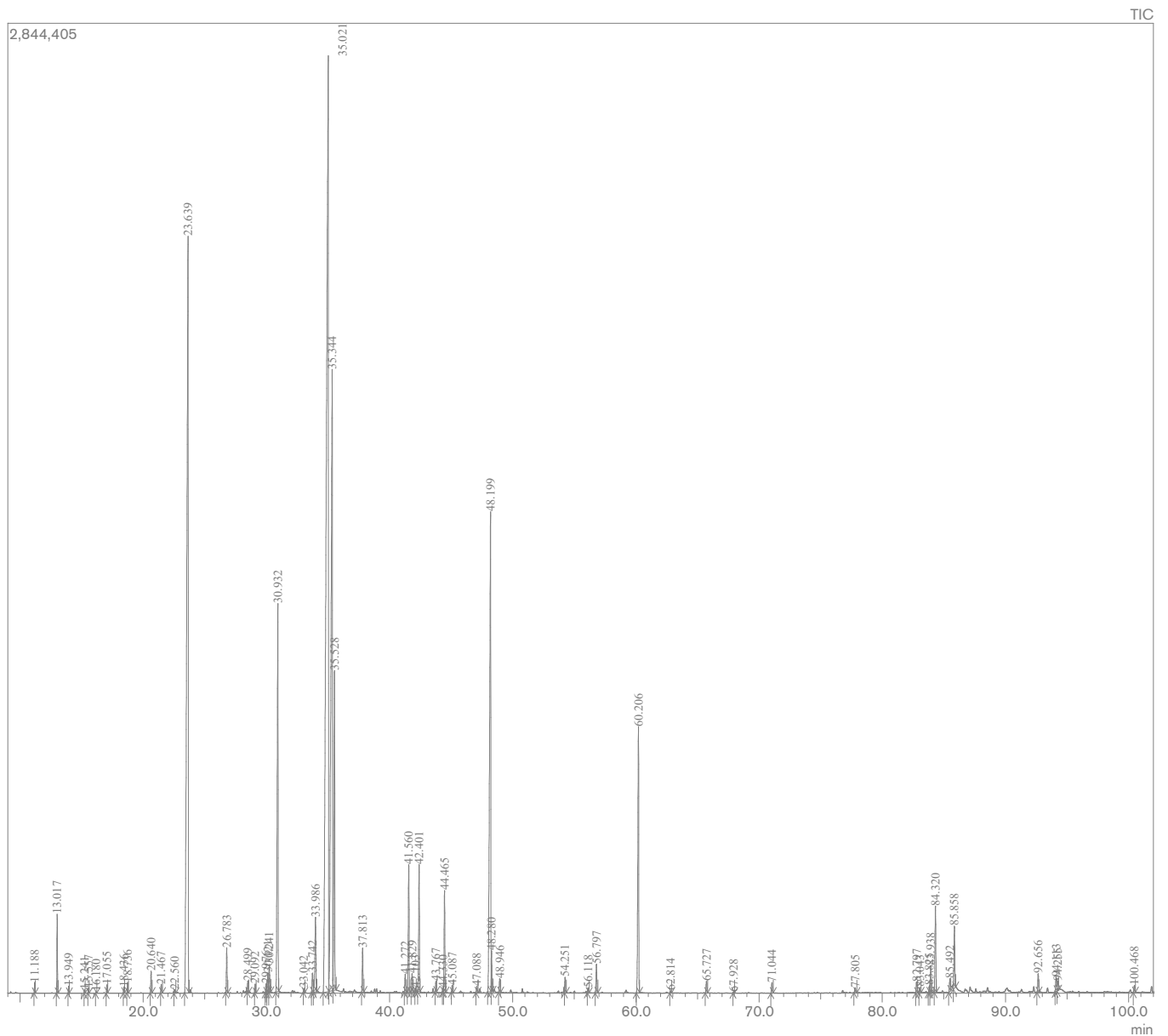
Cilantro Essential Oil

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Chromatogram



Peak Report

Peak#	R.Time	Name	Area%
1	11.188	n-Nonane	0.08
2	13.017	alpha-Pinene	0.65
3	13.949	Camphene	0.06
4	15.241	Sabinene	0.03
5	15.557	beta-Pinene	0.04
6	16.180	Myrcene	0.01
7	17.055	n-Octanal	0.08
8	18.436	para-Cymene	0.06
9	18.736	Limonene	0.10
10	20.640	gamma-Terpinene	0.22
11	21.467	Octanol	0.09
12	22.560	trans-Linalool oxide (furanoid)	0.04
13	23.639	Linalool	17.04
14	26.783	Camphor	0.48
15	28.499	Borneol	0.13
16	29.092	Terpinen-4-ol	0.09
17	29.976	4-cis-Decenal	0.10
18	30.121	alpha-Terpineol	0.25
19	30.241	4-trans-Decenal	0.33
20	30.932	n-Decanal	5.54
21	33.042	Neral	0.04
22	33.742	2-cis-Decenal	0.29
23	33.986	Geraniol	1.18
24	35.021	2-trans-Decenal	31.05
25	35.344	2-trans-Decene-1-ol	14.39
26	35.528	n-Decanol	4.12
27	37.813	Undecanal	0.50
28	41.272	1-Undecanol	0.23
29	41.560	2-trans-Undecenal	1.59
30	41.829	2-trans-Undecenol	0.22
31	42.103	n-Undecanol	0.04
32	42.401	Geranyl acetate	1.51
33	43.767	Tetradecene	0.12
34	44.330	2-trans-Decenyl acetate	0.04
35	44.465	Dodecanal	1.25
36	45.087	beta-Caryophyllene	0.08
37	47.088	2-cis-Dodecenal	0.08
38	48.199	2-trans-Dodecenal	8.88
39	48.280	2-trans-Dodecen-1-ol	0.40
40	48.946	Germacrene D	0.17
41	54.251	2-trans-Tridecen-1-al	0.19
42	56.118	Cetene	0.06
43	56.797	Tetradecanal	0.35
44	60.206	10-trans-Tetradeceneol	3.79
45	62.814	Neocnidilide	0.02
46	65.727	n-Pentadecanol	0.16
47	67.928	cis-9-Hexadecenal	0.01
48	71.044	2-trans-Hexadecenal	0.13
49	77.805	1-Eicosene	0.07
50	82.797	Cilantro sesquiterpenoid 1	0.15
51	83.043	Cilantro sesquiterpenoid 2	0.07
52	83.825	Cilantro sesquiterpenoid 3	0.09
53	83.938	1-Nonadecanol	0.37
54	84.320	Nonadecyl alcohol	1.17
55	85.492	Cilantro sesquiterpenoid 4	0.20
56	85.858	Isopropyl linoleate	0.85
57	92.656	Butyl stearate	0.26
58	94.113	Cilantro sesquiterpenoid 5	0.23
59	94.255	Cilantro sesquiterpenoid 6	0.15
60	100.468	Cilantro sesquiterpenoid 7	0.10
			100.00

