

Laboratory Test Report

SAMPLE NAME : Organic Lavender Fine
CLIENT NAME : Plant Therapy
CLIENT LOT # : LM0109R
APRC LOT# : PT241209A

Column : ZB5 (60 m length × 0.25 mm inner diameter × 0.25 µm film thicknes
Instrument : Shimadzu GCMS-QP2010 Ultra
Carrier gas : Helium 80 psi
Temperature ramp : 2 degrees Celsius per minute up to 260-degree Celsius
Split ratio : 30:1
Sample preparation : 5% w/v solution with Dichloromethane

Interpretation on this sample

The analysis of this Lavender sample meets the expected chemical profile of authentic essential oil of *Lavandula angustifolia*.

Analyzed by : Dr Prabodh Satyal
Reviewed by : Ambika Poudel

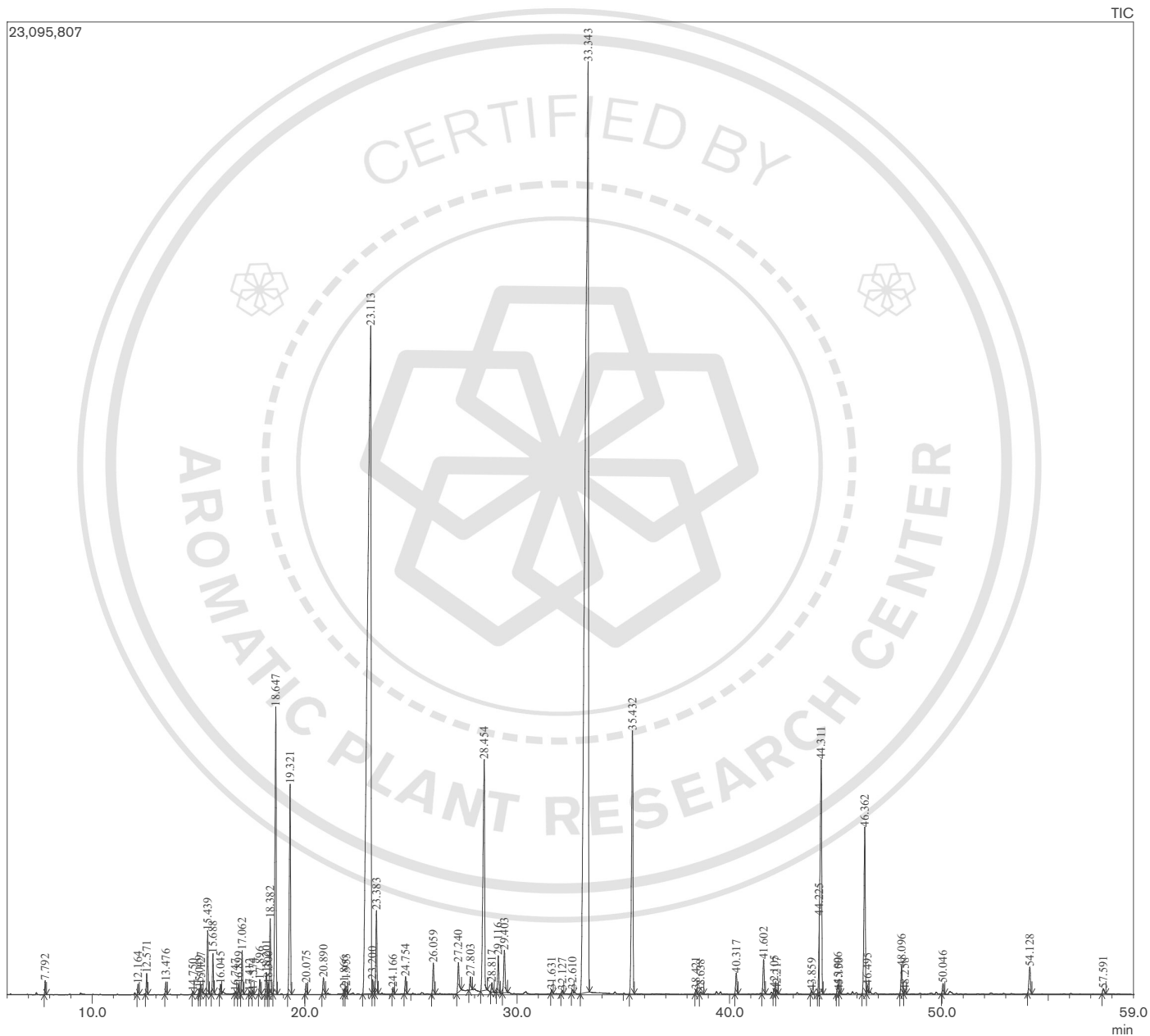
Issued Date : 12/10/2024

GCMS Analysis

Sample Information

Analyzed by : Dr. Prabodh Satyal
Analyzed : 12/10/2024 5:04:23 AM
Sample Type : Essential Oil
Sample Name : Organic Lavender Fine
Client Name : Plant Therapy
Client Lot# : LM0109R
APRC Lot# : PT241209A
Injection Volume : 0.30

Chromatogram



Peak Report

Peak#	R.Time	Name	Area%
1	7.792	1-Methoxy hexane	0.11
2	12.164	alpha-Thujene	0.11
3	12.571	alpha-Pinene	0.22
4	13.476	Camphene	0.14
5	14.750	Sabinene	0.03
6	15.049	beta-Pinene	0.06
7	15.127	1-Octen-3-ol	0.11
8	15.439	3-Octanone	0.73
9	15.688	Myrcene	0.44
10	16.045	Butyl butanoate	0.11
11	16.747	alpha-Phellandrene	0.03
12	16.899	delta-3-Carene	0.12
13	17.062	Hexyl acetate	0.51
14	17.412	alpha-Terpinene	0.03
15	17.574	meta-Cymene	0.04
16	17.896	para-Cymene	0.18
17	18.201	Limonene	0.28
18	18.300	beta-Phellandrene	0.11
19	18.382	1,8-Cineole	0.96
20	18.647	cis-beta-Ocimene	4.29
21	19.321	trans-beta-Ocimene	2.99
22	20.075	gamma-Terpinene	0.14
23	20.890	cis-Linalool oxide (furanoid)	0.24
24	21.866	Terpinolene	0.06
25	21.953	trans-Linalool oxide (furanoid)	0.11
26	23.113	Linalool	27.87
27	23.200	Hexyl propionate+Hotrienol	0.23
28	23.383	1-Octen-3-yl acetate	1.09
29	24.166	3-Octanol acetate	0.08
30	24.754	allo-Ocimene	0.22
31	26.059	Camphor	0.42
32	27.240	Lavandulol	0.46
33	27.803	Borneol	0.19
34	28.454	Terpinen-4-ol	4.58
35	28.817	Cryptone	0.14
36	29.116	Hexyl butanoate	0.50
37	29.403	alpha-Terpineol	0.71
38	31.631	Bornyl formate	0.05
39	32.127	Hexyl 2-methyl butanoate	0.04
40	32.610	Cuminal	0.05
41	33.343	Linalyl acetate	36.61
42	35.432	Lavandulyl acetate	4.51
43	38.421	Hexyl tiglate	0.06
44	38.638	Terpendiol	0.04
45	40.317	Neryl acetate	0.30
46	41.602	Geranyl acetate	0.50
47	42.105	Hexyl hexanoate	0.08
48	42.217	7-epi-Sesquithujene	0.06
49	43.859	cis-alpha-Bergamotene	0.04
50	44.225	alpha-Santalene	0.54
51	44.311	beta-Caryophyllene	4.34
52	45.096	trans-alpha-Bergamotene	0.14
53	45.150	Coumarin	0.04
54	46.362	trans-beta-Farnesene	2.70
55	46.495	alpha-Humulene	0.11
56	48.096	Germacrene D	0.41
57	48.258	trans-beta-Bergamotene	0.05
58	50.046	gamma-Cadinene	0.15
59	54.128	Caryophyllene oxide	0.46
60	57.591	epi-alpha-Cadinol	0.09
			100.00