

Laboratory Test Report

SAMPLE NAME : Balm Mint Bush
CLIENT NAME : Plant Therapy
CLIENT LOT # : BP0105R
APRC LOT# : PT250425A

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-degree Celsius
Split ratio : 30:1
Sample preparation : 5% w/v solution with Dichloromethane

Interpretation on this sample

The analysis of Balm mint bush sample meets the standard chemical profile of *Prostanthera melissifolia* essential oil.

Analyzed by : Dr Prabodh Satyal
Reviewed by : Ambika Poudel

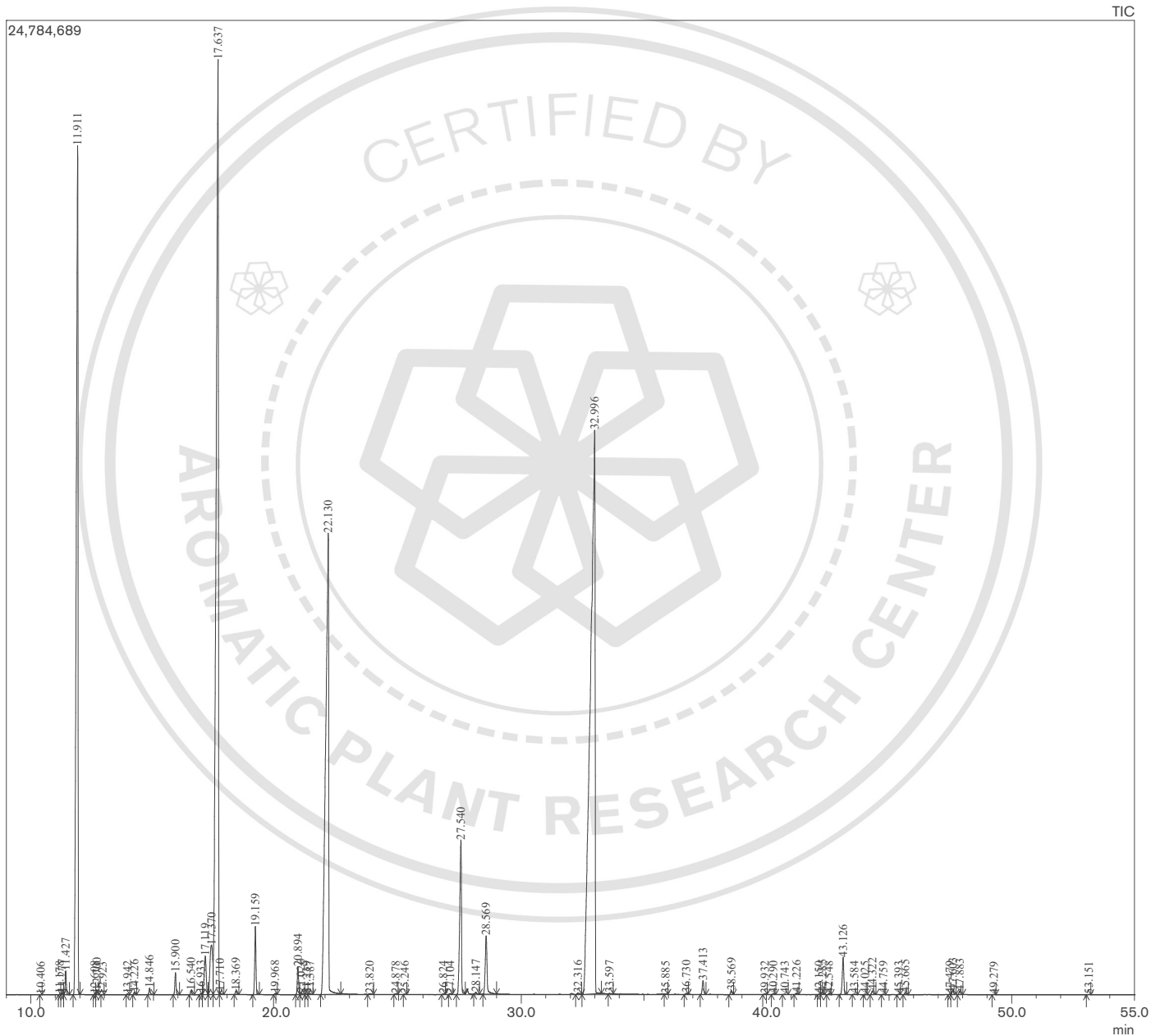
Issued Date : 4/30/2025

GCMS Analysis

Sample Information

Analyzed by : Dr. Prabodh Satyal
Analyzed : 4/30/2025 10:28:38 AM
Sample Type : Essential Oil
Sample Name : Balm Mint Bush
Client Name : Plant Therapy
Client Lot# : BP0105R
APRC Lot# : PT250425A
Injection Volume : 0.30

Chromatogram



Peak Report

Peak#	R.Time	Name	Area%
1	10.406	Bornylene	0.00
2	11.178	Hashishene	0.01
3	11.277	Tricyclene	0.03
4	11.427	alpha-Thujene	0.31
5	11.911	alpha-Pinene	17.18
6	12.608	alpha-Fenchene	0.01
7	12.700	Camphene	0.05
8	12.923	Thuja-2,4(10)-diene	0.00
9	13.942	Sabinene	0.01
10	14.226	beta-Pinene	0.03
11	14.846	Myrcene	0.10
12	15.900	alpha-Phellandrene	0.30
13	16.540	alpha-Terpinene	0.07
14	16.933	1-para-Menthene	0.02
15	17.119	para-Cymene	0.86
16	17.370	Limonene	1.51
17	17.637	1,8-Cineole	25.41
18	17.710	cis-beta-Ocimene	0.04
19	18.369	trans-beta-Ocimene	0.06
20	19.159	gamma-Terpinene	0.98
21	19.968	cis-Linalool oxide (furanoid)	0.02
22	20.894	Terpinolene	0.42
23	21.026	trans-Linalool oxide (furanoid)	0.04
24	21.239	Fenchone	0.01
25	21.387	para-Cymenene	0.02
26	22.130	Linalool	16.07
27	23.820	allo-Ocimene	0.01
28	24.878	trans-para-Menth-2-en-1-ol	0.01
29	25.246	Camphor	0.00
30	26.824	Isoborneol	0.01
31	27.104	Borneol	0.01
32	27.540	Terpinen-4-ol	3.09
33	28.147	para-Cymen-8-ol	0.03
34	28.569	alpha-Terpineol	1.22
35	32.316	Carvotanacetone	0.03
36	32.996	Piperitone	30.62
37	33.597	Geranial	0.01
38	35.885	6-Hydroxy carvotone lactone	0.00
39	36.730	Bicycloelemene	0.02
40	37.413	delta-Elemene	0.24
41	38.569	alpha-Terpinyl acetate	0.07
42	39.932	Isoledene	0.01
43	40.290	alpha-Copaene	0.02
44	40.743	cis-beta-Elemene	0.01
45	41.226	trans-beta-Elemene	0.03
46	42.150	beta-Longipinene	0.01
47	42.285	beta-Maaliene	0.04
48	42.548	alpha-Gurjunene	0.02
49	43.126	beta-Caryophyllene	0.66
50	43.584	gamma-Maaliene	0.01
51	44.025	alpha-Maaliene	0.01
52	44.322	Aromadendrene	0.07
53	44.759	Selina-5,11-diene	0.01
54	45.393	alpha-Humulene	0.01
55	45.665	allo-Aromadendrene	0.04
56	47.479	beta-Selinene	0.01
57	47.603	Viridiflorene	0.08
58	47.883	Bicyclogermacrene	0.07
59	49.279	delta-Cadinene	0.00
60	53.151	Caryophyllene oxide	0.00
			100.00