

Laboratory Test Report

SAMPLE NAME : Peppermint
CLIENT NAME : Plant Therapy
CLIENT LOT # : P50117R
APRC LOT# : PT250606A

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 Peppermint sample meets the standard chemical profile of *Mentha piperita* essential oil.

Analyzed by : Dr Prabodh Satyal
Reviewed by : Ambika Poudel

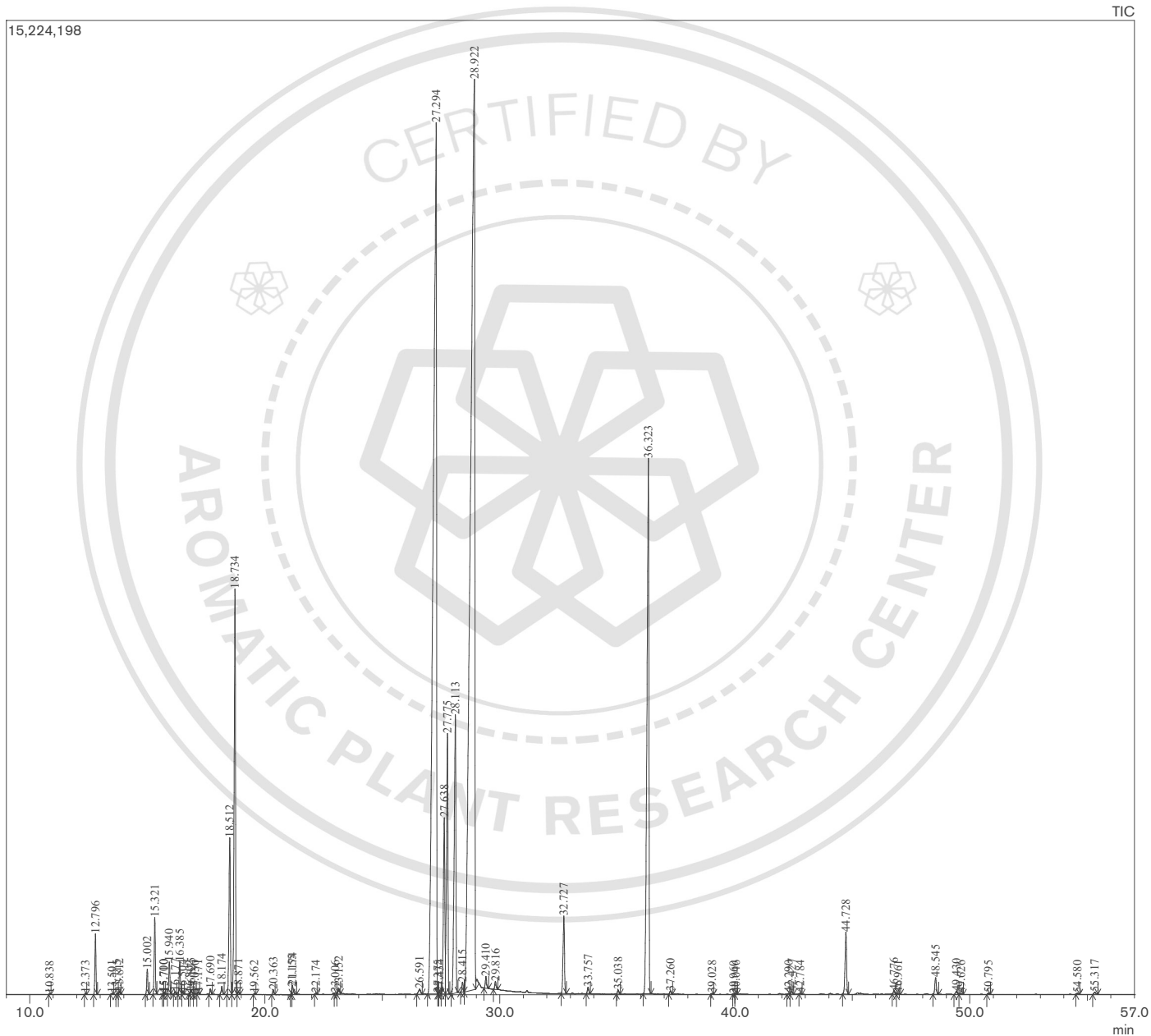
Issued Date : 6/7/2025

GCMS Analysis

Sample Information

Analyzed by : Dr. Prabodh Satyal
Analyzed : 6/7/2025 3:30:46 AM
Sample Type : Essential Oil
Sample Name : Peppermint
Client Name : Plant Therapy
Client Lot# : P50117R
APRC Lot# : PT250606A
Injection Volume : 0.30

Chromatogram



Peak Report

Peak#	R.Time	Name	Area%
1	10.838	2,5-Diethyl tetrahydrofuran	0.01
2	12.373	alpha-Thujene	0.01
3	12.796	alpha-Pinene	0.60
4	13.501	Methyl cyclohexanol	0.01
5	13.715	Camphene	0.01
6	13.812	3-Methyl cyclohexanone	0.03
7	15.002	Sabinene	0.27
8	15.321	beta-Pinene	0.85
9	15.700	3-Octanone	0.01
10	15.710	3-para-Menthene	0.01
11	15.940	Myrcene	0.34
12	16.177	trans-Menthane	0.03
13	16.385	3-Octanol	0.37
14	16.504	2,6-Dimethyl-3-heptanone	0.02
15	16.802	n-Octanal	0.01
16	16.875	para-Mentha-1 (7),8-diene	0.05
17	17.030	alpha-Phellandrene	0.01
18	17.171	delta-3-Carene	0.02
19	17.690	alpha-Terpinene	0.06
20	18.174	para-Cymene	0.10
21	18.512	Limonene	2.15
22	18.734	1,8-Cineole	5.27
23	18.871	cis-beta-Ocimene	0.04
24	19.562	trans-beta-Ocimene	0.01
25	20.363	gamma-Terpinene	0.06
26	21.155	cis-Sabinene hydrate	0.03
27	21.174	n-Octanol	0.12
28	22.174	Terpinolene	0.01
29	23.006	3-Nonanol	0.02
30	23.152	Linalool	0.08
31	26.591	Isopulegol	0.10
32	27.294	Menthone	27.98
33	27.375	trans-Menthan-4-ol	0.01
34	27.434	ortho-Menthone	0.02
35	27.638	Menthofuran	2.50
36	27.775	Isomenthone	3.62
37	28.113	Neomenthol	4.67
38	28.415	trans-Isopulegone	0.12
39	28.922	Menthol	37.59
40	29.410	iso-Menthol	0.15
41	29.816	alpha-Terpineol	0.11
42	32.727	Pulegone	1.07
43	33.757	Piperitone	0.09
44	35.038	neo-Menthyl acetate	0.05
45	36.323	Menthyl acetate	9.81
46	37.260	iso-Menthyl acetate	0.04
47	39.028	delta-Elemene	0.01
48	39.960	Mint furanone isomer 1	0.01
49	40.046	Mint furanone isomer 2	0.01
50	42.290	Methyl propenyl hexahydro benzofuran	0.01
51	42.427	beta-Bourbonene	0.04
52	42.784	beta-Elemene	0.02
53	44.728	beta-Caryophyllene	0.91
54	46.776	trans-beta-Farnesene	0.05
55	46.961	alpha-Humulene	0.02
56	48.545	Germacrene D	0.25
57	49.430	Bicyclogermacrene	0.05
58	49.626	alpha-Murolene	0.02
59	50.795	delta-Cadinene	0.02
60	54.580	Caryophyllene oxide	0.02
61	55.317	Viridiflorol	0.04
			100.00