

Laboratory Test Report

SAMPLE NAME : Rosemary
CLIENT NAME : Plant Therapy
CLIENT LOT # : R40114R
APRC LOT# : PT250610A

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 the Rosemary sample meets the standard chemical profile of *Rosemarinus officinalis* essential oil.

Analyzed by : Dr Prabodh Satyal
Reviewed by : Ambika Poudel

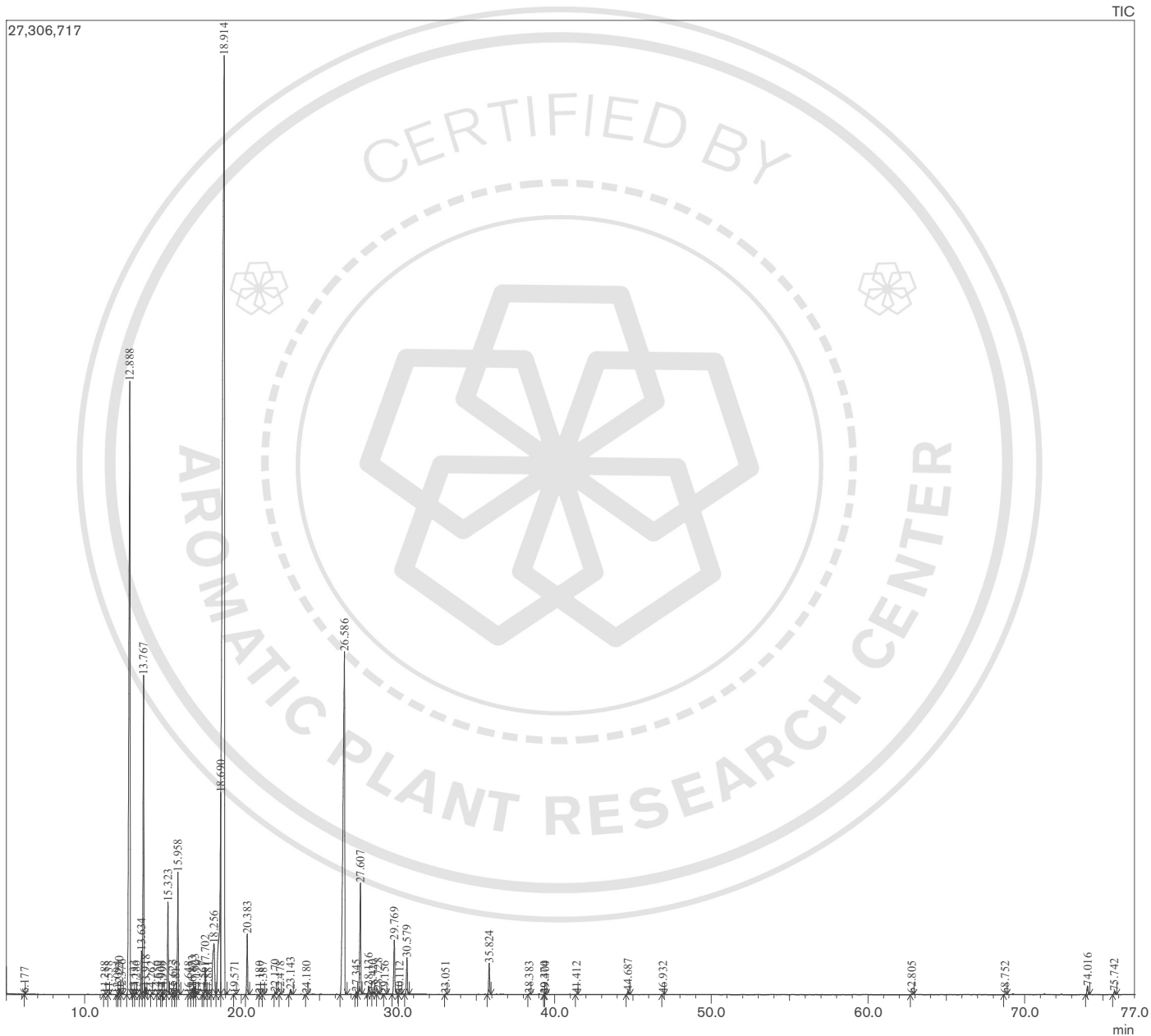
Issued Date : 6/10/2025

GCMS Analysis

Sample Information

Analyzed by : Dr. Prabodh Satyal
Analyzed : 6/10/2025 7:14:53 AM
Sample Type : Essential Oil
Sample Name : Rosemary
Client Name : Plant Therapy
Client Lot# : R40114R
APRC Lot# : PT250610A
Injection Volume : 0.30

Chromatogram



Peak Report

Peak#	R.Time	Name	Area%
1	6.177	Toluene	0.00
2	11.288	Bornylene	0.01
3	11.538	2,6-Dimethyl-oct-4-ene	0.00
4	12.094	Hashishene	0.00
5	12.220	Tricyclene	0.09
6	12.376	alpha-Thujene	0.04
7	12.888	alpha-Pinene	16.08
8	13.133	beta-Fenchene	0.03
9	13.286	beta-Citronellene	0.02
10	13.634	alpha-Fenchene	0.85
11	13.767	Camphene	5.95
12	13.918	Thuja-2,4(10)-diene	0.11
13	14.262	ortho-Ethyl toluene	0.00
14	14.650	4-Cyclopropylnorcarane	0.01
15	14.908	3,7,7-Trimethyl-1,3,5-cycloheptatriene	0.01
16	14.999	Sabinene	0.01
17	15.323	beta-Pinene	1.54
18	15.623	trans-Isolimonene	0.04
19	15.815	3-para-Menthene	0.01
20	15.958	Myrcene	2.14
21	16.648	2-para-Menthene	0.01
22	16.873	para-Mentha-1(7),8-diene	0.12
23	17.023	alpha-Phellandrene	0.15
24	17.170	delta-3-Carene	0.02
25	17.567	1,4-Cineole	0.01
26	17.702	alpha-Terpinene	0.57
27	17.881	meta-Cymene	0.01
28	18.256	para-Cymene	2.14
29	18.690	Limonene	5.15
30	18.914	1,8-Cineole	44.48
31	19.571	trans-beta-Ocimene	0.02
32	20.383	gamma-Terpinene	1.09
33	21.180	cis-Linalool oxide (furanoid)	0.01
34	21.387	para-Mentha-3,8-diene	0.01
35	22.170	Terpinolene	0.04
36	22.478	para-Cymenene	0.01
37	23.143	Linalool	0.12
38	24.180	iso-Fenchol	0.01
39	26.586	Camphor	13.03
40	27.345	trans-Pinocamphone	0.05
41	27.607	Isoborneol	2.53
42	28.136	Borneol	0.15
43	28.420	cis-Pinocamphone	0.04
44	28.728	Terpinen-4-ol	0.06
45	29.156	para-Cymen-8-ol	0.01
46	29.769	alpha-Terpineol	1.31
47	30.112	gamma-Terpineol	0.02
48	30.579	Verbenone	0.78
49	33.051	Carvone	0.01
50	35.824	Bornyl acetate	0.66
51	38.383	Myrtenyl acetate	0.02
52	39.370	Piperitenone	0.00
53	39.404	2,3-Pinadiol	0.01
54	41.412	Myrtanyl acetate	0.01
55	44.687	beta-Caryophyllene	0.08
56	46.932	alpha-Humulene	0.01
57	62.805	Unidentified	0.02
58	68.752	Phytone	0.01
59	74.016	Dimyrcene A	0.21
60	75.742	Dimyrcene B	0.08
			100.00