



## Laboratory Test Report

**SAMPLE NAME** : Thyme Linalool  
**CLIENT NAME** : Plant Therapy  
**CLIENT LOT #** : TL0110R  
**APRC LOT#** : PT241029A

**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 Thyme sample meets the standard chemical profile of *Thymus vulgaris* linalool CT essential oil.

**Analyzed by** : Dr Prabodh Satyal  
**Reviewed by** : Ambika Poudel

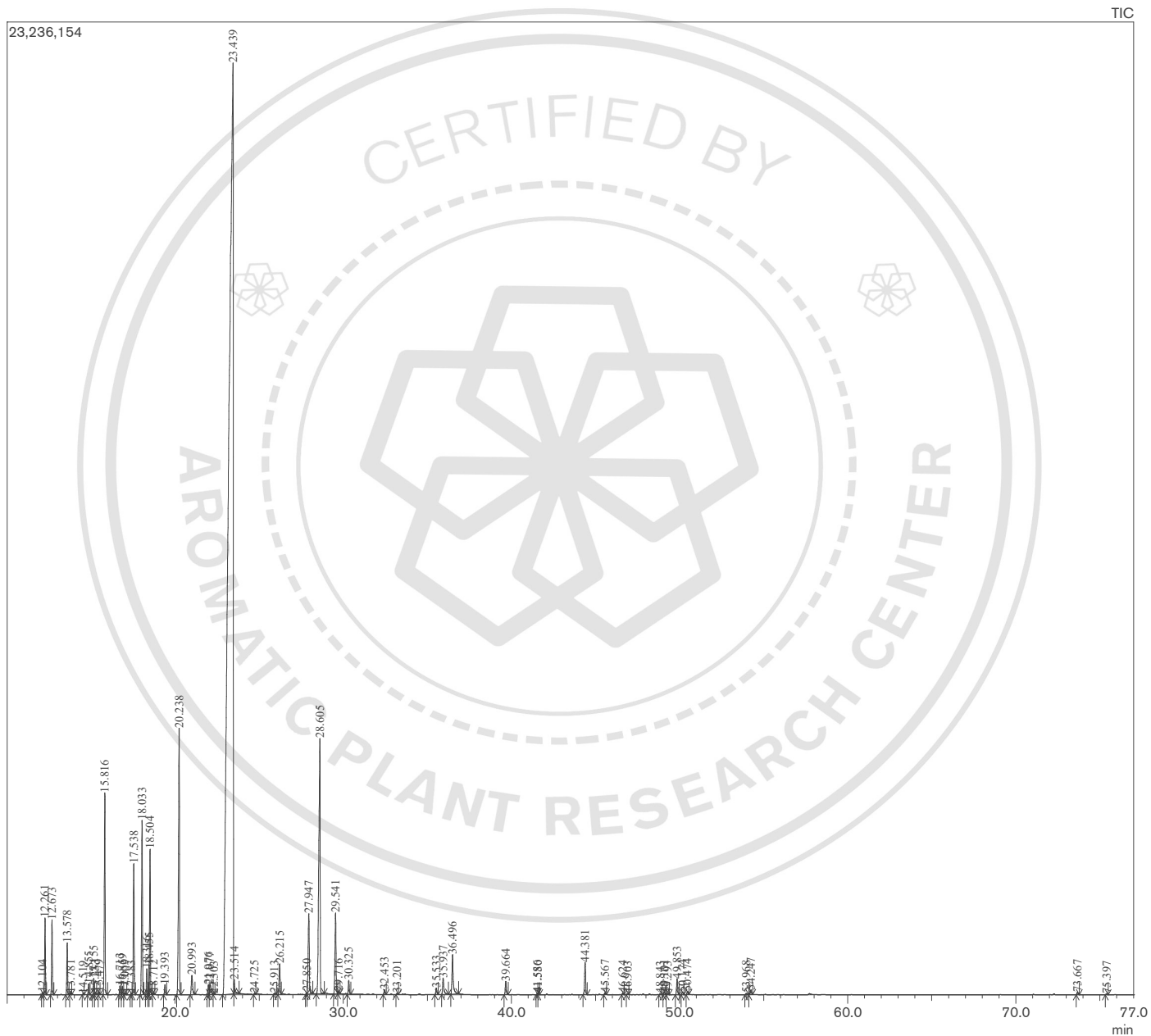
**Issued Date** : 10/30/2024

## GCMS Analysis

### Sample Information

Analyzed by : Dr. Prabodh Satyal  
Analyzed : 10/30/2024 7:59:47 PM  
Sample Type : Essential Oil  
Sample Name : Thyme Linalool  
Client Name : Plant Therapy  
Client Lot# : TL0110R  
APRC Lot# : PT241029A  
Injection Volume : 0.30

### Chromatogram



## Peak Report

Peak#	R.Time	Name	Area%
1	12.104	Tricyclene	0.03
2	12.261	alpha-Thujene	0.87
3	12.673	alpha-Pinene	0.89
4	13.578	Camphene	0.64
5	13.781	Thuja-2,4(10)-diene	0.03
6	14.519	4-Cyclopropylnorcarane	0.01
7	14.855	Sabinene	0.14
8	15.155	beta-Pinene	0.21
9	15.233	1-Octen-3-ol	0.04
10	15.479	trans-Isolimonene	0.04
11	15.816	Myrcene	2.78
12	16.713	para-Mentha-1(7),8-diene	0.12
13	16.859	alpha-Phellandrene	0.11
14	17.009	delta-3-Carene	0.03
15	17.383	1,4-Cineole	0.02
16	17.538	alpha-Terpinene	1.82
17	18.033	para-Cymene	2.54
18	18.316	Limonene	0.38
19	18.455	beta-Phellandrene	0.20
20	18.504	1,8-Cineole	1.91
21	18.712	cis-beta-Ocimene	0.03
22	19.393	trans-beta-Ocimene	0.14
23	20.238	gamma-Terpinene	4.50
24	20.993	cis-Sabinene hydrate	0.41
25	21.976	Terpinolene	0.15
26	22.077	trans-Linalool oxide (furanoid)	0.25
27	22.303	para-Cymenene	0.01
28	23.439	Linalool	69.19
29	23.514	trans-Sabinene hydrate	0.20
30	24.725	cis-para-Menth-2-en-1-ol	0.02
31	25.913	trans-para-Menth-2-en-1-ol	0.02
32	26.215	Camphor	0.47
33	27.850	delta-Terpineol	0.02
34	27.947	Borneol	1.48
35	28.605	Terpinen-4-ol	5.70
36	29.541	alpha-Terpineol	1.43
37	29.716	trans-Dihydro carvone	0.04
38	30.325	Verbenone	0.22
39	32.453	Carvacrol methyl ether	0.08
40	33.201	Linalyl acetate	0.02
41	35.533	Bornyl acetate	0.11
42	35.937	Thymol	0.34
43	36.496	Carvacrol	0.83
44	39.664	alpha-Terpinyl acetate	0.23
45	41.556	Isobornyl propanoate	0.02
46	41.580	alpha-Copaene	0.01
47	44.381	beta-Caryophyllene	0.55
48	45.567	Aromadendrene	0.04
49	46.624	alpha-Humulene	0.02
50	46.903	allo-Aromadendrene	0.02
51	48.843	Viridiflorene	0.02
52	49.101	Bicyclogermacrene	0.04
53	49.293	alpha-Murolene	0.02
54	49.853	beta-Bisabolene	0.27
55	50.174	gamma-Cadinene	0.04
56	50.474	delta-Cadinene	0.05
57	53.968	Spathulenol	0.04
58	54.247	Caryophyllene oxide	0.09
59	73.667	Dimyrcene A	0.04
60	75.397	Dimyrcene B	0.01
			100.00