

Laboratory Test Report

SAMPLE NAME : Petitgrain
CLIENT NAME : Plant Therapy
CLIENT LOT # : P60110R
APRC LOT# : PT250617E

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 Petitgrain sample meets the standard chemical profile of Citrus aurantium essential oil.

Analyzed by : Dr Prabodh Satyal
Reviewed by : Ambika Poudel

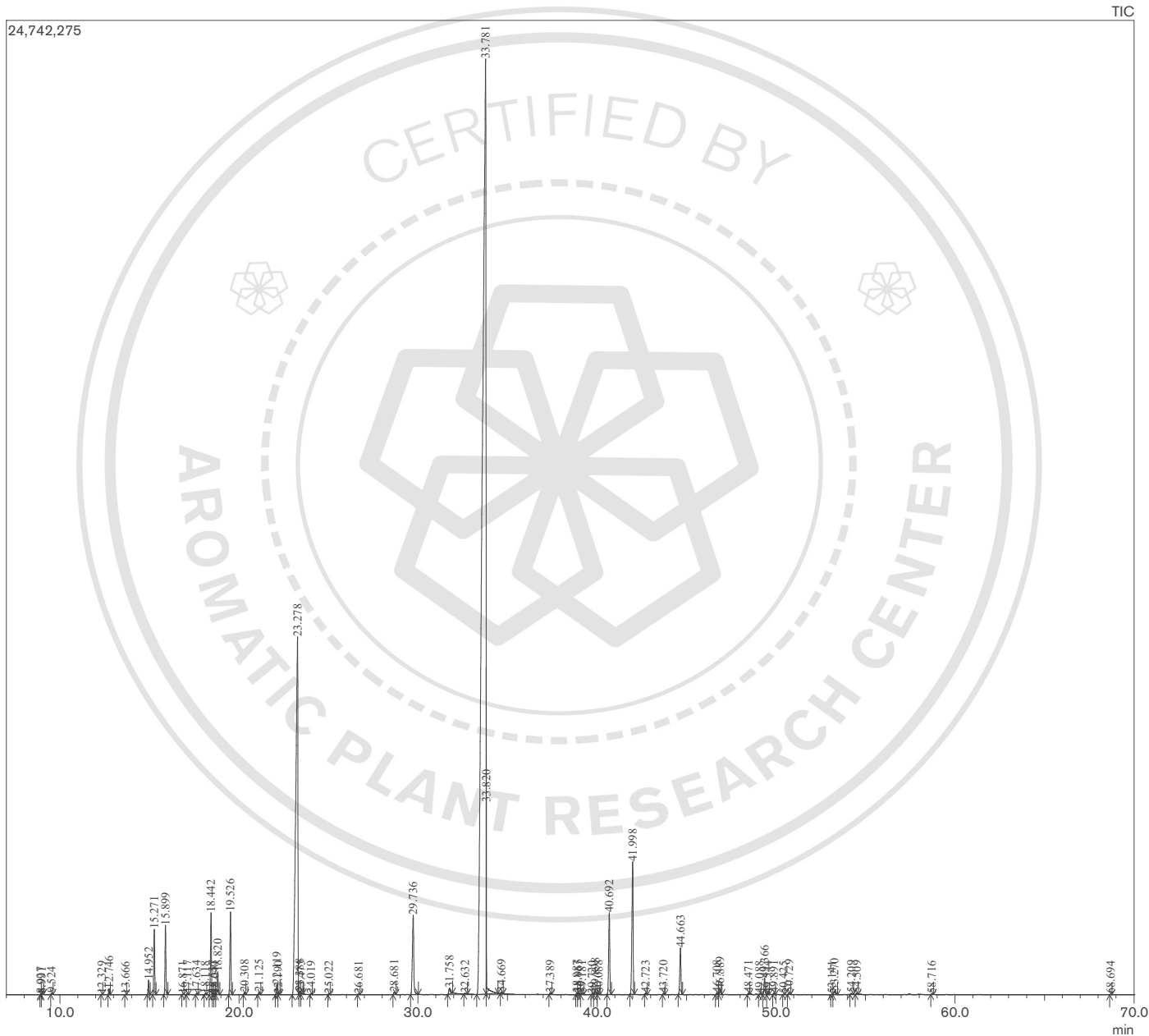
Issued Date : 6/18/2025

GCMS Analysis

Sample Information

Analyzed by : Dr. Prabodh Satyal
Analyzed : 6/18/2025 4:47:16 AM
Sample Type : Essential Oil
Sample Name : Petitgrain
Client Name : Plant Therapy
Client Lot# : P60110R
APRC Lot# : PT250617E
Injection Volume : 0.30

Chromatogram



Peak Report

Peak#	R.Time	Name	Area%
1	8.927	2-trans-Hexenal	0.01
2	8.991	3-cis-Hexenol	0.01
3	9.524	n-Hexanol	0.02
4	12.329	alpha-Thujene	0.01
5	12.746	alpha-Pinene	0.09
6	13.666	Camphene	0.01
7	14.952	Sabinene	0.24
8	15.271	beta-Pinene	1.09
9	15.899	Myrcene	1.20
10	16.871	cis-Dehydroxy linalool oxide	0.01
11	17.117	delta-3-Carene	0.03
12	17.634	alpha-Terpinene	0.02
13	18.118	para-Cymene	0.02
14	18.442	Limonene	1.52
15	18.537	beta-Phellandrene	0.03
16	18.640	1,8-Cineole	0.01
17	18.820	cis-beta-Ocimene	0.41
18	19.526	trans-beta-Ocimene	1.53
19	20.308	gamma-Terpinene	0.04
20	21.125	cis-Linalool oxide (furanoid)	0.05
21	22.119	Terpinolene	0.20
22	22.190	trans-Linalool oxide (furanoid)	0.01
23	23.278	Linalool	15.30
24	23.388	Hotrienol	0.06
25	23.475	n-Nonanal	0.02
26	24.019	2-Methyl-6-methylen-octa-1,7-dien-3-one	0.02
27	25.022	allo-Ocimene	0.02
28	26.681	Citronellal	0.02
29	28.681	Terpinen-4-ol	0.05
30	29.736	alpha-Terpineol	2.18
31	31.758	Nerol	0.16
32	32.632	Neral	0.02
33	33.781	Linalyl acetate	67.32
34	33.820	Geraniol	0.98
35	34.669	Geranial	0.03
36	37.389	4-Vinyl guaicol	0.03
37	38.887	Linalyl propanoate	0.03
38	38.965	Bicycloelemene	0.04
39	39.181	delta-Elemene	0.03
40	39.720	Peroxy linalyl acetate A	0.01
41	39.898	alpha-Terpinyol acetate	0.08
42	40.088	Citronellyl acetate	0.03
43	40.692	Neryl acetate	1.82
44	41.998	Geranyl acetate	3.21
45	42.723	beta-Elemene	0.03
46	43.720	Methyl N-methyl anthranilate	0.03
47	44.663	beta-Caryophyllene	1.07
48	46.708	trans-beta-Farnesene	0.04
49	46.889	alpha-Humulene	0.11
50	48.471	Germacrene D	0.03
51	49.088	Viridiflorene	0.01
52	49.366	Bicyclogermacrene	0.37
53	49.544	alpha-Murolene	0.02
54	49.891	trans-trans-alpha-Farnesene	0.03
55	50.425	gamma-Cadinene	0.01
56	50.729	delta-Cadinene	0.05
57	53.141	Germacrene B	0.01
58	53.270	trans-Nerolidol	0.11
59	54.209	Spathulenol	0.03
60	54.509	Caryophyllene oxide	0.03
61	58.716	alpha-Cadinol	0.01
62	68.694	Phytone	0.01
			100.00