

Certificate of Analysis

Laboratory Report

SAMPLE NAME : Rose Absolute
CLIENT NAME : Plant Therapy
CLIENT LOT # : R30120
APRC LOT# : PT260501A

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 Rose absolute sample meets the standard chemical profile of *Rosa damascena* absolute.

Analyzed by : Dr Prabodh Satyal
Reviewed by : Ambika Poudel

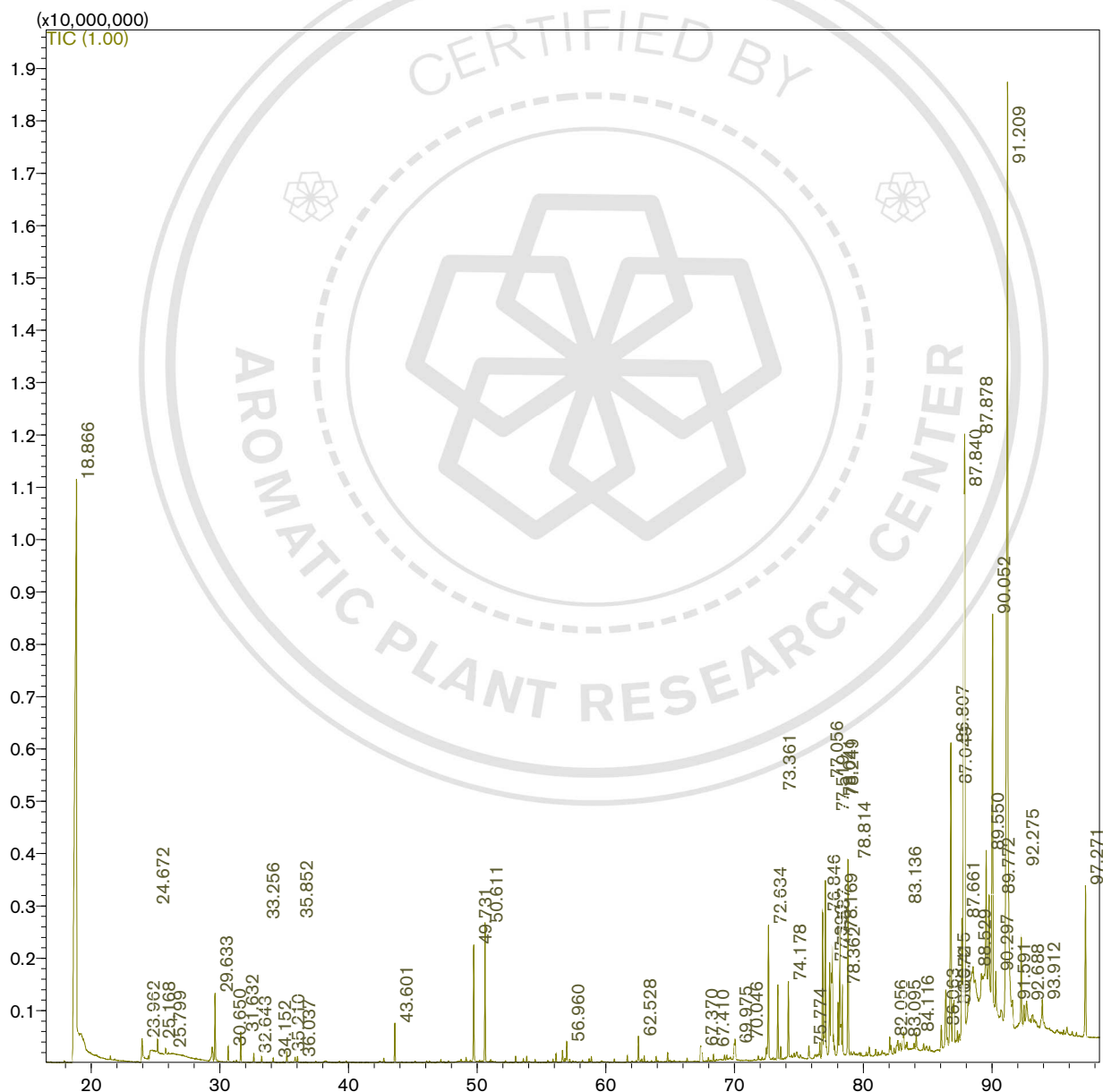
Issued Date : 05-04-2026

GCMS Analysis

Sample Information

Analyzed by : Dr Prabodh Satyal
Analyzed : 05-04-2026
Sample Type : Essential Oil
Sample Name : Rose Absolute
Client Name : Plant Therapy
Client Lot# : R30120
APRC Lot# : PT260501A
Injection Volume : 0.30

Chromatogram



Peak Table

S.N.	R-Time	Compounds	Area%
1	18.866	Phenyl ethyl alcohol	17.030
2	23.962	Citronellol	0.310
3	24.671	Geraniol	0.830
4	25.168	2-Phenyl ethyl acetate	0.310
5	25.800	Geranial	0.060
6	29.633	Eugenol	0.730
7	30.650	Geranyl acetate	0.130
8	31.632	Methyl eugenol	0.270
9	32.643	beta-Caryophyllene	0.090
10	33.256	alpha-Guaiene	0.060
11	34.152	alpha-Humulene	0.050
12	35.210	Germacrene D	0.110
13	35.852	n-Pentadecane	0.050
14	36.037	alpha-Bulnesene	0.070
15	43.601	n-Heptadecane	0.380
16	49.731	Nonadec-9-ene	1.210
17	50.611	Nonadecane	1.460
18	56.960	Heneicosane	0.190
19	62.528	cis-9-Tricosene	0.250
20	67.370	Phenyl ethyl tetradecanoate	0.190
21	67.410	Tetradecyl nonanoate	0.090
22	69.975	Nonanoic acid pentadecyl ester	0.130
23	70.046	Hexadecyl octanoate	0.170
24	72.634	Phenethyl palmitic acid	1.600
25	73.361	Citronellyl palmitic acid	0.840
26	74.178	Neryl palmitic acid	0.880
27	75.774	trans-Squalene	0.130
28	76.846	2-Phenylethyl linoleate	1.820
29	77.056	Unidentified	2.050
30	77.390	Citronellyl linoleic acid	1.100
31	77.519	Unidentified	1.060
32	77.587	Citronellyl Linolenic acid	1.120
33	78.041	Citronellyl stearic acid	0.610
34	78.169	Geranyl Linoleic acid	1.480
35	78.249	Geranyl oleic acid	0.280
36	78.362	Geranyl Linolenic acid	0.750
37	78.814	Geranyl stearic acid	2.330
38	82.056	Phenethyl icosanoate	0.180
39	83.095	Unidentified	0.120
40	83.136	trans-3,7-Dimethylocta-2,6-dien-1-yl icosanoate	0.210
41	84.116	Farnesyl palmitate	0.180
42	86.063	Unidentified	0.320
43	86.415	Unidentified	1.040
44	86.807	Unidentified	4.460
45	86.972	Unidentified	0.480
46	87.049	Unidentified	0.540
47	87.661	Unidentified	1.470
48	87.840	beta-Amyrone	6.550
49	87.878	Lupenone	6.520
50	88.529	Lupeol	1.770
51	89.550	Unidentified	2.350
52	89.772	Unidentified	1.920
53	90.052	Unidentified	5.880
54	90.297	Unidentified	0.470
55	91.209	Amylose acetate	21.430
56	91.591	Unidentified	0.210
57	92.275	Ursolic aldehyde	1.070
58	92.688	Unidentified	0.490
59	93.912	Unidentified	0.270
60	97.271	Unidentified	1.850
Total			100%

GC-Chiral Analysis

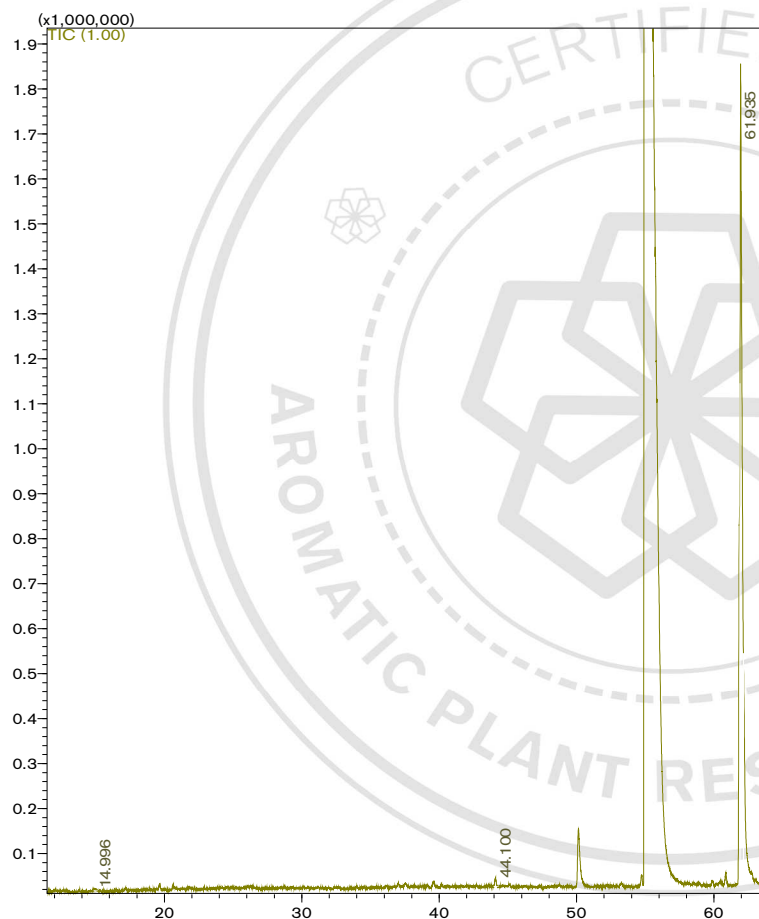
Sample Information

Analyzed by : Dr. Prabodh Satyal
Analyzed : 4-May-2026
Sample Type : Essential Oil
Sample Name : Rose Absolute
Client Name : Plant Therapy
Client Lot# : R30120
APRC Lot# : PT260501A
Injection Volume : 0.30

Peak Table

Name	Time	Area%
alpha-Pinene	14.996	0.21
Linalool	44.100	0.77
Citronellol	61.935	99.02

Chromatogram



Enantiomeric Components Distribution

Compounds	Content ratio	Standard ratio
alpha-Pinene	(+): (-)100	N/A
Linalool	(+): (-)100	N/A
Citronellol	(+): (-)100	N/A

Comment: Pass