



Laboratory Test Report

SAMPLE NAME : Carrot Seed
CLIENT NAME : Plant Therapy
CLIENT LOT # : C40110R
APRC LOT# : PT240429C

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 Carrot seed sample meets the standard chemical profile of Dacus carrota essential oil.

Analyzed by : Dr Prabodh Satyal
Reviewed by : Ambika Poudel

Issued Date : 5/1/2024

GCMS Analysis

Sample Information

Analyzed by : Dr. Prabodh Satyal
Analyzed : 5/1/2024 10:55:15 PM
Sample Type : Essential Oil
Sample Name : Carrot Seed
Client Name : Plant Therapy
Client Lot# : C40110R
APRC Lot# : PT240429C
Injection Volume : 0.30

Chromatogram



Peak Report

Peak#	R.Time	Name	Area%
1	12.486	alpha-Pinene	0.54
2	13.411	Camphene	0.03
3	13.625	Thuja-2,4(10)-diene	0.02
4	14.684	Sabinene	0.05
5	14.996	beta-Pinene	0.32
6	15.604	Myrcene	0.41
7	17.357	alpha-Terpinene	0.01
8	17.882	para-Cymene	0.04
9	18.144	Limonene	0.35
10	18.268	beta-Phellandrene	0.02
11	18.338	1,8-Cineole	0.01
12	20.030	gamma-Terpinene	0.02
13	22.255	para-Cymenene	0.02
14	22.716	Perillene	0.02
15	22.826	Linalool	0.02
16	29.557	Myrtenal	0.03
17	41.679	Daucene	3.36
18	43.677	Longifolene	0.02
19	43.854	cis-alpha-Bergamotene	0.03
20	44.304	beta-Caryophyllene	0.50
21	44.741	Unidentified	0.09
22	44.906	gamma-Elementene	0.04
23	45.107	trans-alpha-Bergamotene	0.76
24	45.853	Acora-2,4(15)-diene	0.11
25	46.371	trans-beta-Farnesene	1.67
26	46.615	alpha-Humulene	0.07
27	46.649	1,1,4,4-Tetramethyl tetralin-2-one	0.10
28	46.810	beta-Santalene	0.04
29	46.858	trans-Muroladiene	0.25
30	47.448	gamma-Decalactone	0.04
31	47.660	Dauca-5,8-diene	0.97
32	48.175	ar-Curcumene	0.13
33	48.689	beta-Selinene	0.05
34	49.018	alpha-Zingiberene	0.12
35	49.282	trans-Methyl isoeugenol	0.48
36	49.434	Isodaucene	0.85
37	49.670	Unidentified	0.19
38	49.827	beta-Bisabolene	2.32
39	50.197	Unidentified	0.12
40	50.430	delta-Cadinene	0.03
41	50.782	beta-Sesquiphellandrene	0.16
42	51.056	Dauca-4(11),8-diene	0.12
43	51.227	cis-Calamenene	0.05
44	51.759	trans-alpha-Bisabolene	0.08
45	52.436	beta-Calacorene	0.04
46	53.315	Unidentified	1.31
47	54.365	Caryophyllene oxide	0.41
48	55.967	Carotol	79.45
49	56.102	Unidentified	0.16
50	56.616	Chiloscyphone	0.07
51	56.839	Unidentified	0.23
52	56.937	Muurola-4,10(14)-dien-1-alpha-ol	0.44
53	57.148	Unidentified	0.13
54	57.243	Muurola-4,10(14)-dien-1-beta-ol	0.07
55	57.897	Daucol	2.15
56	59.602	Isohedycariol	0.39
57	59.769	Unidentified	0.24
58	64.810	2-Decanoyl furan	0.06
59	65.464	12-Hydroxy-trans-sesquicineole	0.12
60	68.385	Phytone	0.08
			100.00