



Laboratory Test Report

SAMPLE NAME : Dill Weed
CLIENT NAME : Plant Therapy
CLIENT LOT # : D10113R
APRC LOT# : PT250113A

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 this Dill weed sample meets the expected chemical profile of authentic essential oil of Anethum graveolens weed.

Analyzed by : Dr Prabodh Satyal
Reviewed by : Ambika Poudel

Issued Date : 1/14/2025

GCMS Analysis

Sample Information

Analyzed by : Dr. Prabodh Satyal
Analyzed : 1/14/2025 3:14:19 AM
Sample Type : Essential Oil
Sample Name : Dill Weed
Client Name : Plant Therapy
Client Lot# : D10113R
APRC Lot# : PT250113A
Injection Volume : 0.30

Chromatogram



Peak Report

Peak#	R.Time	Name	Area%
1	5.955	Toluene	0.01
2	8.607	3-cis-Hexenol	0.01
3	9.103	n-Hexanol	0.01
4	11.608	alpha-Thujene	0.12
5	12.011	alpha-Pinene	0.61
6	12.813	alpha-Fenchene	0.00
7	12.908	Camphene	0.01
8	14.161	Sabinene	0.06
9	14.456	beta-Pinene	0.03
10	15.074	Myrcene	0.37
11	15.167	Dehydro-1,8-cineole+2-Amyl furan	0.01
12	16.085	3-Ethenyl-1,2-dimethyl-1,4-cyclohexadiene	0.05
13	16.276	alpha-Phellandrene	19.75
14	16.800	alpha-Terpinene	0.03
15	17.370	para-Cymene	1.10
16	17.766	Limonene	30.86
17	17.827	beta-Phellandrene	1.89
18	17.972	cis-beta-Ocimene	0.02
19	18.643	trans-beta-Ocimene	0.01
20	19.428	gamma-Terpinene	0.02
21	20.260	cis-Sabinene hydrate	0.00
22	21.181	Terpinolene	0.05
23	21.519	Fenchone	0.01
24	21.636	para-Cymenene	0.07
25	22.039	n-Undecane	0.02
26	22.216	Linalool	0.02
27	23.768	trans-para-Mentha-2,8-dien-1-ol	0.01
28	23.921	cis-para-Menth-2-en-1-ol	0.02
29	24.489	cis-Limonene oxide	0.02
30	24.784	trans-Limonene oxide	0.03
31	25.177	trans-para-Menth-2-en-1-ol	0.01
32	25.452	Myrcenone	0.01
33	25.535	Camphor	0.01
34	27.115	Isoborneol	0.01
35	27.401	Borneol	0.02
36	27.790	para-1,8-Menthadien-4-ol	0.01
37	27.844	Terpinen-4-ol	0.02
38	28.269	Dill ether	7.13
39	28.413	Cryptone	0.02
40	28.841	4,7-Dimethyl bicyclo[3.2.1]oct-3-en-6-one	0.07
41	29.121	cis-Dihydro carvone	0.72
42	29.539	trans-Dihydro carvone	0.96
43	30.458	meta-Isopropyl benzaldehyde	0.01
44	30.663	trans-Carveol	0.01
45	30.821	exo-2-Hydroxy cineole	0.02
46	31.720	cis-Carveol	0.01
47	32.672	Carvone	35.50
48	32.781	Carvotanacetone	0.08
49	33.021	Piperitone	0.01
50	34.008	Isopiperitenone	0.02
51	34.480	trans-Carvone oxide	0.02
52	34.779	Bornyl acetate	0.00
53	35.699	Tridecane	0.01
54	38.065	2-(1-methyl-2-oxopropyl)-Cyclohexanone	0.02
55	38.918	alpha-Terpinyl acetate	0.01
56	39.423	Eugenol	0.02
57	39.753	cis-Caryyl acetate	0.01
58	43.740	para-Menth-1-en-9-ol acetate	0.01
59	44.460	Dihydro-beta-ionone	0.01
60	47.380	Germacrene D	0.02
			100.00