



Essential Oil University

GC/MS Report

Item	Lot
Carrot Seed EO <i>Daucus carota</i>	8M
Date	Analyst
1/10/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Carrot Seed EO, meets the expected chemical profile for authentic essential oil of *Daucus carota*. No contamination or adulteration was detected. The results provided in this GCMS quality analysis reflect the chemical composition of the oil and lot referenced above on the date of analysis.



Sample Information

Company: Revive
Sample Name: Carrot Seed EO
Botanical Name: Daucus carota
Lot Number: 8M
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: France
Analysis Date: 1/10/2025
Manufacture Date: July 2024

GC/MS

Inst. ID: Shimadzu GCMS-QP2010Ultra
Injection Type: Split
Split Ratio: 24.4

Column Type: ZB-5
Injection Volume: 0.1 µL
Temperature Program: 2C/min

Physical Data

ANALYSIS

Optical Rotation @20°C
Refractive Index @20°C
Specific Gravity @20°C

METHOD

USP[781]
USP[831]
USP[841]

RESULTS

+9.80
1.48626
0.92278



Ret. Time	Component	Ret. Idx.	Conc. %	
10.511	Heptanal	903	0.01%	
11.454	Hashishene	920	0.01%	
11.719	alpha-Thujene	925	0.12%	
12.140	alpha-Pinene	933	11.95%	
12.915	alpha-Fenchene	947	0.01%	
13.009	Camphene	949	0.06%	
13.207	Thuja-2,4(10)-diene	952	0.01%	
14.275	Sabinene	972	6.75%	
14.567	beta-Pinene	977	3.56%	
15.184	Myrcene	989	1.05%	
16.087	Pseudolimonene	1004	0.06%	
17.365	para-Cymene	1024	0.03%	
17.662	Limonene	1029	1.77%	IFRA
17.740	beta-Phellandrene	1030	0.02%	
17.855	1,8-Cineole	1032	0%	
19.518	gamma-Terpinene	1057	0.01%	
21.626	para-Cymenene	1090	0.01%	
22.221	alpha-Pinene oxide	1099	0.03%	
22.906	Unidentified	1109	0.01%	
25.037	trans-Pinocarveol	1140	0.02%	
25.363	trans-Verbenol	1145	0.02%	
27.773	Terpinen-4-ol	1180	0.01%	
28.800	Myrtenol	1195	0.04%	
28.986	cis-Dihydrocarvone	1198	0.04%	
29.418	trans-Dihydrocarvone	1204	0.02%	
29.582	Verbenone	1206	0.01%	
30.312	Unidentified	1217	0.02%	
32.103	Carvone	1243	0.05%	IFRA
32.538	Geraniol	1250	2.01%	IFRA
32.780	Unidentified	1253	0.01%	
35.737	Unidentified	1297	0.01%	
36.490	4-Vinyl guaiacol	1308	0.02%	
38.998	Unidentified	1346	0.04%	
39.178	Unidentified	1349	0.01%	
39.746	Neryl acetate	1358	0.03%	
40.856	alpha-Copaene	1375	0.02%	
41.068	Geranyl acetate	1378	11.55%	
41.140	Unidentified	1379	0.11%	
41.237	Unidentified	1381	0.07%	
42.707	cis-beta-Caryophyllene	1403	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
43.001	Longifolene	1408	0.02%	IFRA
43.268	cis-alpha-Bergamotene	1412	0.01%	
43.680	beta-Caryophyllene	1419	6.73%	
44.099	Unidentified	1426	0.05%	
44.275	Unidentified	1428	0.02%	
44.410	Unidentified	1431	0.03%	
44.510	trans-alpha-Bergamotene	1432	0.33%	
44.627	Unidentified	1434	0.02%	
45.195	Acora-2,4(15)-diene	1443	0.06%	
45.756	trans-beta-Farnesene	1452	0.61%	
45.890	alpha-Humulene	1454	0.03%	
45.973	Unidentified	1456	0.06%	
46.176	cis-Cadina-1(6),4-diene	1459	0.13%	
46.334	Unidentified	1461	0.01%	
46.486	gamma-Decalactone	1464	0.03%	
46.932	gamma-Murolene	1471	0.39%	
47.163	Unidentified	1475	0.03%	
47.493	Ar-Curcumene	1480	0.06%	
47.664	Unidentified	1483	0.02%	
47.981	beta-Selinene	1488	0.01%	
48.360	cis-Methyl isoeugenol	1494	0.25%	
48.698	Isodaucene	1499	0.39%	
48.928	Unidentified	1503	0.15%	
49.144	beta-Bisabolene	1507	1.09%	
49.325	Unidentified	1510	0.02%	
49.441	Unidentified	1512	0.08%	
49.746	delta-Cadinene	1517	0.01%	
50.098	beta-Sesquiphellandrene	1523	0.07%	
50.336	Dauca-4(11),8-diene	1527	0.06%	
50.476	cis-Calamenene	1529	0.04%	
51.098	Unidentified	1540	0.06%	
51.660	Unidentified	1549	0.03%	
52.315	Unidentified	1560	0.01%	
52.499	Unidentified	1564	1.03%	
52.787	Dendrolasin	1568	0.01%	
53.197	Unidentified	1575	0.01%	
53.512	Caryophyllene oxide	1581	1.22%	
54.130	Unidentified	1591	0.02%	
54.189	Unidentified	1592	0.03%	
54.469	Unidentified	1597	0.05%	



Ret. Time	Component	Ret. Idx.	Conc. %	
54.859	Carotol	1604	43.88%	
55.148	Unidentified	1609	0.06%	
55.580	Dillapiole	1616	0.24%	
55.753	Unidentified	1619	0.05%	
55.946	Unidentified	1623	0.14%	
56.095	Unidentified	1626	0.3%	
56.264	Unidentified	1629	0.08%	
56.405	Unidentified	1631	0.03%	
56.660	Unidentified	1636	0.01%	
57.005	Daucol	1642	1.69%	
57.701	Unidentified isomer I	1654	0.05%	
58.538	Unidentified isomer I	1669	0.02%	
58.694	Unidentified	1672	0.2%	
58.799	Unidentified	1674	0.14%	
59.385	epi-alpha-Bisabolol	1684	0.01%	IFRA
59.506	alpha-Bisabolol	1686	0.01%	IFRA
61.154	Unidentified	1716	0.02%	
63.310	Unidentified	1757	0.01%	
63.575	Unidentified	1762	0.01%	
63.837	Unidentified	1767	0.05%	
64.468	Unidentified	1778	0.09%	
66.616	Unidentified	1820	0.01%	
67.691	Phytone	1841	0.03%	
72.934	Unidentified	1946	0.01%	

Total Identified Compounds **96.73 %**

