



Essential Oil University

GC/MS Report

Item	Lot
Carrot Seed EO <i>Daucus carota</i>	8D
Date	Analyst
8/4/2025	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: 8D
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: France
Analysis Date: 8/4/2025
Manufacture Date: July 2025

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

+9.88
1.48579
0.91888



Ret. Time	Component	Ret. Idx.	Conc. %	
4.212	3-Methylbutanal	636	0%	
11.158	Heptanal	901	0.01%	
12.163	Hashishene	919	0.01%	
12.431	alpha-Thujene	924	0.09%	
12.872	alpha-Pinene	931	12.64%	
13.047	Unidentified	935	0.01%	
13.688	alpha-Fenchene	946	0.01%	
13.789	Camphene	948	0.05%	
13.988	Thuja-2,4(10)diene	951	0.02%	
15.087	Sabinene	971	7.21%	
15.400	beta-Pinene	976	4.15%	
15.717	Unidentified	982	0.01%	
16.012	Myrcene	987	1.6%	
16.960	Pseudolimonene	1003	0.08%	
17.135	alpha-Phellandrene	1006	0.01%	
17.254	Unidentified	1007	0.01%	
17.770	alpha-Terpinene	1015	0.01%	
18.254	para-Cymene	1023	0.03%	
18.561	Limonene	1027	2.03%	IFRA
18.645	beta-Phellandrene	1028	0.02%	
18.772	1,8-Cineole	1030	0.05%	
18.959	cis-beta-Ocimene	1033	0.02%	
19.658	trans-beta-Ocimene	1044	0.02%	
20.470	gamma-Terpinene	1056	0.02%	
22.308	Terpinolene	1084	0.01%	
22.630	para-Cymenene	1088	0.01%	
23.174	Perillene	1097	0.01%	
23.263	Linalool	1098	0.02%	IFRA
26.138	trans-Pinocarveol	1139	0.02%	
26.452	trans-Verbenol	1144	0%	
28.907	Terpinen-4-ol	1179	0.01%	
29.941	Myrtenal	1194	0.03%	
30.546	Unidentified	1203	0%	
31.491	Unidentified	1216	0.02%	
31.895	Nerol	1222	0.01%	
33.259	Unidentified	1242	0%	
33.651	Geraniol	1248	2.07%	IFRA
33.931	Unidentified	1252	0.02%	
34.391	Unidentified	1259	0%	
35.711	Unidentified	1278	0%	



Ret. Time	Component	Ret. Idx.	Conc. %	
37.635	4-Vinyl guaiacol	1306	0.03%	
40.220	Unidentified	1346	0.04%	
40.418	Unidentified	1349	0.01%	
40.605	Unidentified	1351	0.01%	
40.914	Neryl acetate	1356	0.04%	
41.880	Unidentified	1371	0.02%	
42.227	Geranyl acetate	1376	10.21%	
42.280	Daucene	1377	1.67%	
42.494	Unidentified	1380	0.09%	
42.626	Unidentified	1382	0.03%	
42.685	Unidentified	1383	0.02%	
44.289	Junipene	1408	0.02%	
44.498	cis-alpha-Bergamotene	1411	0.01%	
44.635	Unidentified	1413	0.01%	
44.935	beta-Caryophyllene	1418	7.23%	
45.345	Unidentified	1425	0.07%	
45.519	Acora-3,7(14)-diene	1427	0.03%	
45.743	trans-alpha-Bergamotene	1431	0.43%	
45.879	Unidentified	1433	0.02%	
46.447	Acora-2,4(15)-diene	1442	0.11%	
46.633	Unidentified	1445	0.01%	
46.970	trans-beta-Farnesene	1451	0.77%	
47.180	Unidentified	1454	0.03%	
47.237	trans-Calamenene	1455	0.12%	
47.439	cis-Cadina-1(6),4-diene	1458	0.2%	
47.601	Unidentified	1461	0.02%	
47.754	Unidentified	1463	0.04%	
48.206	Dauca-5,8-diene	1470	0.56%	
48.385	Unidentified	1473	0.04%	
48.570	Unidentified	1476	0.01%	
48.733	Ar-Curcumene	1479	0.09%	
48.922	Unidentified	1482	0.02%	
49.252	beta-Selinene	1487	0.02%	
49.558	cis-Methyl isoeugenol	1492	0.36%	
49.991	Isodaucene	1499	0.47%	
50.217	Unidentified	1502	0.14%	
50.391	beta-Bisabolene	1505	1.45%	
50.585	Unidentified	1509	0.02%	
50.730	Unidentified	1511	0.07%	
51.007	delta-Cadinene	1516	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %
51.351	beta-Sesquiphellandrene	1522	0.07%
51.621	Dauca-4(11),8-diene	1526	0.06%
51.750	cis-Calamenene	1528	0.04%
52.346	Unidentified	1538	0.07%
52.927	Unidentified	1548	0.04%
53.385	Unidentified	1556	0.01%
53.545	Unidentified	1558	0.01%
53.804	Unidentified	1563	1%
54.043	Dendrolasin	1567	0.02%
54.125	Unidentified	1568	0.01%
54.471	Unidentified	1574	0.02%
54.660	Unidentified	1577	0.01%
54.821	Caryophyllene oxide	1580	1.24%
55.446	Unidentified	1590	0.07%
55.734	Unidentified	1595	0.04%
56.145	Carotol	1602	39.63%
56.455	Unidentified	1608	0.07%
57.061	Unidentified	1619	0.05%
57.269	Unidentified	1622	0.14%
57.405	Unidentified	1625	0.3%
57.575	Unidentified	1628	0.07%
57.720	Unidentified	1630	0.03%
57.985	Caryophylla-4(12),8(13)-dien-5-beta-ol	1635	0.02%
58.318	Daucol	1641	1.45%
58.586	Unidentified	1646	0.03%
58.749	Unidentified	1648	0.01%
59.004	14-Hydroxy-9-epi-(Z)-Caryophyllene	1653	0.02%
59.825	14-Hydroxy-9-epi-(E)-Caryophyllene	1668	0.02%
59.920	Unidentified	1669	0.04%
60.030	Unidentified	1671	0.18%
60.114	Unidentified	1673	0.1%
60.796	Unidentified	1685	0.01%
64.908	Unidentified	1761	0.01%
65.080	Unidentified	1764	0.01%
65.176	Unidentified	1766	0.04%
65.796	Unidentified	1777	0.07%
65.980	Unidentified	1781	0.01%
68.984	Phytone	1838	0.02%
74.261	meta-Camphorene	1944	0.02%
77.185	Unidentified	2004	0.01%



Ret. Time	Component	Ret. Idx.	Conc. %
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Total Identified Compounds **96.71 %**

