



Essential Oil University

GC/MS Report

Item	Lot
Carrot Seed EO <i>Daucus carota</i>	5AD
Date	Analyst
4/11/2025	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:** 5AD**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** France**Analysis Date:** 4/11/2025**Manufacture Date:** January 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

+10.12

1.48610

0.92088



Ret. Time	Component	Ret. Idx.	Conc. %	
10.581	Heptanal	900	0%	
11.520	Hashishene	917	0.01%	
11.792	alpha-Thujene	922	0.15%	
12.210	alpha-Pinene	930	11.78%	
13.082	Camphene	946	0.03%	
13.287	Thuja-2,4(10)diene	950	0.01%	
14.353	Sabinene	969	6.6%	
14.647	beta-Pinene	974	3.88%	
15.274	Myrcene	986	1.17%	
16.181	Pseudolimonene	1002	0.05%	
16.991	alpha-Terpinene	1014	0.01%	
17.463	para-Cymene	1022	0.03%	IFRA
17.753	Limonene	1026	1.88%	
17.830	beta-Phellandrene	1027	0.01%	
17.921	1,8-Cineole	1029	0.04%	
18.164	cis-beta-Ocimene	1032	0.01%	
18.848	trans-beta-Ocimene	1043	0.01%	
19.625	gamma-Terpinene	1055	0.02%	
21.427	Unidentified	1082	0%	
21.747	Unidentified	1087	0.01%	
22.295	Unidentified	1096	0.01%	
25.154	trans-Pinocarveol	1137	0.01%	
28.924	Myrtenal	1192	0.02%	
30.438	Unidentified	1214	0.01%	IFRA
30.545	Unidentified	1216	0.01%	
32.666	Geraniol	1247	1.93%	
32.890	Unidentified	1250	0.02%	
33.866	Unidentified	1264	0.01%	
39.143	Unidentified	1343	0.03%	
39.883	Neryl acetate	1355	0.05%	
40.857	Unidentified	1370	0.01%	
41.009	alpha-Copaene	1372	0.04%	
41.190	Geranyl acetate	1375	11.55%	
41.280	Unidentified	1376	0.16%	
41.380	Unidentified	1378	0.07%	
42.868	Unidentified	1400	0.02%	
43.145	Junipene	1405	0.02%	
43.409	cis-alpha-Bergamotene	1409	0.01%	
43.560	Unidentified	1411	0.01%	
43.821	beta-Caryophyllene	1416	6.89%	



Ret. Time	Component	Ret. Idx.	Conc. %	
44.242	Unidentified	1422	0.06%	
44.422	Acora-3,7(14)-diene	1425	0.03%	
44.551	Unidentified	1427	0.04%	
44.664	trans-alpha-Bergamotene	1429	0.38%	
45.351	Acora-2,4(15)-diene	1440	0.09%	
45.545	Unidentified	1443	0%	
45.908	trans-beta-Farnesene	1449	0.71%	
46.049	alpha-Humulene	1451	0.04%	
46.124	Unidentified	1452	0.08%	
46.331	cis-Cadina-1(6),4-diene	1456	0.17%	
46.480	Unidentified	1458	0.01%	
46.640	Unidentified	1461	0.02%	
47.088	Dauca-5,8-diene	1468	0.48%	
47.309	Unidentified	1471	0.04%	
47.430	Unidentified	1473	0.01%	
47.640	Ar-Curcumene	1477	0.08%	
47.805	Unidentified	1479	0.03%	
48.126	beta-Selinene	1485	0.01%	
48.504	cis-Methyl isoeugenol	1491	0.31%	
48.854	Isodaucene	1496	0.44%	
49.080	Unidentified	1500	0.15%	
49.300	beta-Bisabolene	1504	1.41%	
49.468	Unidentified	1506	0.02%	
49.593	Unidentified	1508	0.07%	
49.915	delta-Cadinene	1514	0.03%	
50.252	beta-Sesquiphellandrene	1520	0.07%	
50.501	Dauca-4(11),8-diene	1524	0.07%	
50.633	cis-Calamenene	1526	0.04%	
51.140	Unidentified	1535	0.01%	
51.257	trans-alpha-Bisabolene	1537	0.06%	
51.522	Unidentified	1541	0.01%	
51.806	Unidentified	1546	0.03%	
52.474	trans-Nerolidol	1557	0.01%	
52.652	Unidentified	1560	0.94%	
52.948	Dendrolasin	1565	0.01%	
53.359	Unidentified	1572	0.01%	
53.667	Caryophyllene oxide	1577	1.13%	
54.245	Unidentified	1587	0.03%	
54.320	Unidentified	1588	0.02%	
54.609	Unidentified	1593	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %	
54.991	Carotol	1599	43.73%	
55.307	Unidentified	1605	0.06%	
55.914	Unidentified	1616	0.04%	
56.105	Unidentified	1619	0.11%	
56.262	Unidentified	1622	0.27%	
56.418	Unidentified	1625	0.06%	
56.581	Muurolo-4,10(14)-dien-1-beta-ol	1628	0.03%	
56.831	Caryophylla-4(12),8(13)-dien-5-beta-ol	1632	0.01%	
57.155	Daucol	1638	1.41%	
57.780	Unidentified	1649	0.01%	
57.885	Unidentified	1651	0.02%	
58.363	Unidentified	1659	0%	
58.702	14-Hydroxy-9-epi-(Z)-Caryophyllene	1665	0.01%	
58.858	Unidentified	1668	0.18%	
58.964	Unidentified	1670	0.11%	
59.559	Unidentified	1681	0%	
59.676	alpha-Bisabolol	1683	0.01%	IFRA
63.753	Unidentified	1758	0.01%	
64.011	Unidentified	1763	0.03%	
64.635	Unidentified	1774	0.06%	
67.870	Phytone	1837	0.02%	
73.120	Unidentified	1941	0.01%	

Total Identified Compounds **97 %**

