



Essential Oil University

GC/MS Report

Item	Lot
Coriander Seed EO <i>Coriandrum sativum</i>	8F
Date	Analyst
1/17/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Coriander Seed EO, meets the expected chemical profile for authentic essential oil of *Coriandrum sativum*. 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:** Coriander Seed EO**Botanical Name:** Coriandrum sativum**Lot Number:** 8F**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** USA**Analysis Date:** 1/17/2025**Manufacture Date:** November 2024

GC/MS

Inst. ID: Shimadzu GCMS-QP2010Ultra**Injection Type:** Split**Split Ratio:** 24.4**Column Type:** ZB-5**Injection Volume:** 0.1 μ L**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

+8.92

1.46430

0.87108



Ret. Time	Component	Ret. Idx.	Conc. %	
6.365	Methyl 2-methylbutyrate	765	0.01%	
11.011	Nonane	894	0%	
12.245	Tricyclene	918	0.04%	
12.394	alpha-Thujene	920	0.03%	
12.821	alpha-Pinene	928	4.96%	
13.744	Camphene	944	1.11%	
15.030	Sabinene	967	0.22%	
15.344	beta-Pinene	972	0.32%	
15.673	6-Methyl-hept-5-en-2-one	978	0.03%	
15.970	Myrcene	983	1.28%	
16.154	6-Methyl-hept-5-en-2-ol	986	0.05%	
16.906	Pseudolimonene	1000	0.03%	
17.056	alpha-Phellandrene	1002	0.02%	
17.202	delta-3-Carene	1004	0.01%	
17.723	alpha-Terpinene	1012	0.04%	
18.204	para-Cymene	1019	0.95%	
18.516	Limonene	1024	2.67%	IFRA
18.623	beta-Phellandrene	1026	0.1%	
18.718	1,8-Cineole	1027	0.08%	
18.912	cis-beta-Ocimene	1030	0.03%	
19.607	trans-beta-Ocimene	1040	0.04%	
20.415	gamma-Terpinene	1052	3.87%	
21.225	cis-Linalool oxide (furanoid)	1065	0.2%	
22.235	Terpinolene	1080	0.6%	
22.300	trans-Linalool oxide (furanoid)	1081	0.1%	
22.953	6-Camphenone	1091	0.01%	
23.377	Linalool	1097	70.18%	IFRA
26.188	Epoxyterpinolene	1137	0.01%	
26.510	Camphor	1142	5.58%	
26.628	cis-beta-Terpineol	1144	0.03%	
26.818	Citronellal	1146	0.01%	IFRA
27.625	Isoborneol	1158	0.01%	
27.894	Unidentified	1162	0.02%	
28.026	cis-Linalool oxide (pyranoid)	1164	0.03%	
28.211	Borneol	1166	0.08%	
28.353	trans-Linalool oxide (pyranoid)	1168	0.01%	
28.653	Unidentified	1173	0.02%	
28.813	Terpinen-4-ol	1175	0.1%	
29.221	para-Cymen-8-ol	1181	0.02%	
29.284	2,6-Dimethyl-3,7-octadiene-2,6-diol	1182	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
29.815	alpha-Terpineol	1189	1.42%	
30.622	Verbenone	1201	0.03%	
30.879	Octyl acetate	1205	0.02%	
31.797	Nerol	1218	0.02%	
31.951	Citronellol	1220	0.04%	IFRA
32.744	Neral	1232	0.01%	IFRA
33.156	Carvone	1238	0.01%	IFRA
33.571	Geraniol	1244	1.55%	IFRA
34.772	Geranial	1261	0.02%	IFRA
35.107	Decanol	1266	0.02%	
36.262	Safrole	1283	0.01%	
38.520	Myrtenyl acetate	1316	0.13%	
40.848	Neryl acetate	1351	0.02%	
42.144	Geranyl acetate	1371	3.68%	
42.550	Unidentified	1377	0.01%	
44.857	beta-Caryophyllene	1413	0.08%	
47.111	alpha-Humulene	1449	0.02%	
48.704	Germacrene D	1474	0.01%	
49.594	Bicyclogermacrene	1488	0.01%	

Total Identified Compounds **99.97 %**

