



Essential Oil University

GC/MS Report

Item	Lot
Coriander Seed EO <i>Coriandrum sativum</i>	0F
Date	Analyst
6/4/2025	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:** 0F**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** USA**Analysis Date:** 6/4/2025**Manufacture Date:** March 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

+11.24

1.46409

0.87038



Ret. Time	Component	Ret. Idx.	Conc. %	
5.976	Methyl 2-methylbutyrate	770	0.01%	
11.505	Tricyclene	921	0.02%	
11.652	alpha-Thujene	924	0.04%	
12.057	alpha-Pinene	931	4.91%	
12.939	Camphene	947	0.74%	
14.017	Bois de Rose oxide	967	0%	
14.187	Sabinene	970	0.13%	
14.482	beta-Pinene	976	0.27%	
14.823	6-Methyl hept-5-en-2-one	982	0.02%	
15.111	Myrcene	987	1.48%	
15.299	6-Methyl hept-5-en-2-ol	991	0.03%	
16.012	Pseudolimonene	1003	0.07%	
16.159	alpha-Phellandrene	1006	0.02%	
16.292	delta-3-Carene	1008	0.01%	
16.808	alpha-Terpinene	1016	0.04%	
17.290	para-Cymene	1023	1.61%	
17.587	Limonene	1028	2.43%	IFRA
17.684	beta-Phellandrene	1029	0.09%	
17.762	1,8-Cineole	1030	0.11%	
17.984	cis-beta-Ocimene	1034	0.05%	
18.661	trans-beta-Ocimene	1044	0.08%	
19.447	gamma-Terpinene	1056	5.32%	
20.227	cis-Linalool oxide (furanoid)	1068	0.27%	
21.221	Terpinolene	1084	0.49%	
21.287	trans-Linalool oxide (furanoid)	1085	0.18%	
21.545	para-Cymenene	1089	0.01%	
21.664	Unidentified	1090	0.01%	
21.917	Unidentified	1094	0.01%	
22.363	Linalool	1101	71.52%	IFRA
22.478	Hotrienol	1103	0.05%	
24.075	Unidentified	1126	0.01%	
24.534	Unidentified	1133	0%	
25.105	Epoxyterpinolene	1141	0.01%	
25.412	Camphor	1146	4.19%	
25.554	cis-beta-Terpineol	1148	0.01%	
26.802	Unidentified	1166	0.01%	
26.935	cis-Linalool oxide (pyranoid)	1168	0.03%	
27.097	Borneol	1170	0.09%	
27.264	trans-Linalool oxide (pyranoid)	1173	0.02%	
27.564	Unidentified	1177	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
27.700	Terpinen-4-ol	1179	0.08%	
28.130	para-Cymen-8-ol	1185	0.02%	
28.199	2,6-Dimethyl-3,7-octadiene-2,6-diol	1186	0.05%	
28.709	alpha-Terpineol	1194	1.7%	
29.503	Verbenone	1205	0.01%	
30.685	Nerol	1223	0.02%	
30.848	Citronellol	1225	0.02%	IFRA
32.026	Carvone	1242	0%	
32.446	Geraniol	1248	1.09%	IFRA
33.650	Geranial	1266	0.02%	IFRA
35.109	Unidentified	1288	0.01%	
37.190	Unidentified	1319	0.01%	
37.321	Myrtenyl acetate	1321	0.07%	
39.664	Neryl acetate	1357	0.02%	
40.944	Geranyl acetate	1376	2.31%	
43.555	beta-Caryophyllene	1417	0.1%	
45.798	alpha-Humulene	1453	0.04%	
47.389	Germacrene D	1478	0.01%	
48.279	Bicyclogermacrene	1493	0.01%	
52.206	trans-Nerolidol	1559	0%	
55.644	Unidentified	1618	0.01%	
57.590	Unidentified	1652	0.01%	
72.841	meta-Camphorene	1944	0.01%	

Total Identified Compounds **99.93 %**

