



Essential Oil University

GC/MS Report

Item	Lot
Cilantro (Coriander Leaf) EO <i>Coriandrum sativum</i>	5F
Date	Analyst
1/21/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Cilantro (Coriander Leaf) 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:** Cilantro (Coriander Leaf) EO**Botanical Name:** Coriandrum sativum**Lot Number:** 5F**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** USA**Analysis Date:** 1/21/2025**Manufacture Date:** June 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

-3.28

1.46115

0.86719



Ret. Time	Component	Ret. Idx.	Conc. %	
4.375	Unidentified	680	0.01%	
6.738	Octane	800	0.01%	
8.626	Hex-(3Z)-enol	849	0.06%	
9.012	Hex-(2E)-enol	860	0.05%	
9.150	Hexanol	863	0.05%	
10.554	Nonane	900	0.51%	
10.663	Unidentified	902	0.01%	
12.298	alpha-Pinene	932	1.76%	
13.190	Camphene	948	0.06%	
14.457	Sabinene	971	0.04%	
14.755	beta-Pinene	976	0.08%	
15.076	Unidentified	982	0.01%	
15.392	Myrcene	988	0.09%	
16.047	Decane	1000	0.04%	
16.225	Octanal	1003	1.1%	
16.441	alpha-Phellandrene	1006	0.01%	
17.268	Unidentified	1019	0.01%	
17.584	para-Cymene	1023	1.57%	
17.878	Limonene	1028	0.26%	IFRA
17.973	beta-Phellandrene	1029	0%	
18.048	1,8-Cineole	1031	0.03%	
18.279	Unidentified	1034	0.01%	
19.750	gamma-Terpinene	1057	0.44%	
20.546	cis-Linalool oxide (furanoid)	1069	0.19%	
21.613	trans-Linalool oxide (furanoid)	1085	0.19%	
21.884	Unidentified	1089	0.03%	
22.639	Linalool	1101	34.71%	IFRA
22.878	Nonanal	1104	1.07%	
25.727	Camphor	1146	0.37%	
27.145	Unidentified	1166	0.02%	
27.433	Unidentified	1170	0.06%	
28.052	Terpinen-4-ol	1179	0.03%	
28.448	Unidentified	1185	0.01%	
28.559	Unidentified	1187	0.03%	
28.822	Unidentified	1191	0.01%	
28.962	Dec-(4Z)-enal	1193	0.23%	
29.050	alpha-Terpineol	1194	0.06%	
29.226	Dec-(4E)-enal	1196	0.42%	
29.854	Decanal	1206	5.88%	
31.986	Unidentified	1237	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
32.684	Dec-(2Z)-enal	1247	0.16%	
32.813	Geraniol	1249	0.19%	IFRA
33.712	Dec-(2E)-enal	1262	13.25%	
34.123	Dec-(2E)-enol	1268	11.15%	
34.354	1-Decanol	1272	3.54%	
35.720	Unidentified	1292	0.01%	
35.836	Unidentified	1293	0.01%	
36.090	Unidentified	1297	0.02%	
36.734	Undecanal	1307	0.23%	
37.427	Unidentified	1317	0.01%	
37.890	Unidentified	1324	0.06%	
38.195	Unidentified	1329	0.03%	
40.129	Undec-(2Z)-enal	1359	1.1%	
40.285	Decanoic acid	1361	0.03%	
40.434	Undec-(8Z)-enal	1363	0.66%	
40.743	Undec-(2E)-enol	1368	0.21%	
41.022	Undecanol	1372	0.06%	
41.310	Geranyl acetate	1377	0.08%	
42.450	Dodec-(4Z)-enal	1394	0.08%	
42.683	Dodec-(4E)-enal	1397	0.14%	
43.371	Dodecanal	1408	2.94%	
43.953	beta-Caryophyllene	1418	0.03%	
45.987	Unidentified	1450	0.03%	
46.739	Unidentified	1462	0.04%	
46.967	trans-2-Dodecenal	1466	3.73%	
47.165	trans-2-Dodecen-1-ol	1469	0.54%	
47.413	Dodecanol	1473	0.05%	
49.692	Tridecanal	1510	0.01%	
52.826	Unidentified	1563	0.01%	
53.007	Unidentified	1566	0.23%	
53.132	(2E)-Tridecen-1-al	1568	0.09%	
54.831	1-Tridecene	1597	0.02%	
55.005	Unidentified	1600	0.06%	
55.681	Unidentified	1612	0.12%	
59.010	Tetradec-2(E)-enal	1671	1.94%	
61.594	3-Isobutylidene phthalide	1718	0.03%	
64.393	Unidentified	1770	0.01%	
64.587	Tetradec-2(Z)-enal	1774	0.17%	
69.896	Tetradecenal analogue	1876	0.04%	
73.271	Unidentified	1945	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %	
73.611	Unidentified	1952	0.01%	
75.637	Unidentified	1993	0.03%	
77.222	Unidentified	2027	0.01%	
80.214	Unidentified	2091	0.02%	
81.625	Unidentified	2123	0.02%	
81.860	Unidentified	2128	0.57%	
82.390	Unidentified	2140	0.02%	
82.773	Unidentified	2148	0.96%	
83.133	Tridec-(2E)-en-1-ol analogue	2157	2.05%	
83.723	Unidentified	2170	0.03%	
84.296	Unidentified	2183	0.23%	
84.663	Unidentified	2191	0.8%	
85.546	Unidentified	2211	0.03%	
85.816	Unidentified	2218	0.08%	
85.946	Unidentified	2221	0.03%	
86.413	Unidentified	2232	0.12%	
86.784	Unidentified	2240	0.03%	
87.031	Unidentified	2246	0.03%	
87.125	Unidentified	2248	0.03%	
87.372	Unidentified	2254	0.14%	
88.269	Unidentified	2275	0.01%	
88.861	Unidentified	2289	0.06%	
88.935	Unidentified	2291	0.06%	
90.113	Unidentified	2319	0.03%	
90.726	Unidentified	2334	0.17%	
90.975	Unidentified	2340	0.02%	
91.123	Unidentified	2344	0.17%	
91.459	Unidentified	2352	0.64%	
91.672	Unidentified	2357	0.07%	
92.228	Unidentified	2371	0.03%	
92.917	Unidentified	2388	0.34%	
93.055	Unidentified	2391	0.73%	
94.077	Unidentified	2417	0.02%	
94.256	Unidentified	2421	0.03%	
94.754	Unidentified	2434	0.03%	
95.419	Unidentified	2451	0.02%	
98.922	Unidentified	2541	0.22%	
99.247	Unidentified	2550	0.35%	
99.405	Unidentified	2554	0.02%	
99.888	Unidentified	2567	0.06%	



Ret. Time	Component	Ret. Idx.	Conc. %	
100.638	Unidentified	2587	0.16%	
100.918	Unidentified	2594	0.19%	
101.192	Unidentified	2601	0.24%	
101.335	Unidentified	2605	0.13%	
101.615	Unidentified	2613	0.05%	
101.880	Unidentified	2620	0.04%	
102.161	Unidentified	2628	0.02%	
102.463	Unidentified	2636	0.02%	
106.746	Unidentified	2756	0.07%	
107.441	Unidentified	2775	0.07%	

Total Identified Compounds **91.83 %**

