



Essential Oil University

GC/MS Report

Item	Lot
Cumin EO <i>Cuminum cyminum</i>	8F
Date	Analyst
11/20/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Cumin EO, meets the expected chemical profile for authentic essential oil of *Cuminum cyminum*. 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: Cumin EO
Botanical Name: Cuminum cyminum
Lot Number: 8F
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: Egypt
Analysis Date: 11/20/2025
Manufacture Date: May 2025

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

+2.24
1.50812
0.92902



Ret. Time	Component	Ret. Idx.	Conc. %	
3.972	3-Methylbutanal	647	0%	
10.303	Nonane	898	0.01%	
11.480	Cumene	921	0.01%	PROP. 65
11.612	alpha-Thujene	923	0.16%	
11.787	1-Isopropylcyclohex-1-ene	926	0.07%	
12.009	alpha-Pinene	930	0.47%	ALLERGEN
12.896	Camphene	947	0.01%	
13.807	Unidentified	963	0.01%	
14.143	Sabinene	970	0.24%	
14.451	beta-Pinene	975	9.46%	ALLERGEN
14.840	para-Menth-3-ene	982	0.01%	
15.063	Myrcene	987	0.35%	PROP. 65
15.271	Unidentified	990	0.01%	
16.107	alpha-Phellandrene	1005	0.19%	
16.247	delta-3-Carene	1007	0.03%	
16.759	alpha-Terpinene	1015	0.1%	ALLERGEN
16.920	ortho-Cymene	1017	0.03%	
17.260	para-Cymene	1023	11.87%	
17.532	Limonene	1027	0.19%	ALLERGEN IFRA
17.633	beta-Phellandrene	1028	0.09%	
17.707	1,8-Cineole	1029	0.09%	
17.862	Cymene analogue	1032	0%	
18.607	trans-beta-Ocimene	1043	0.02%	
19.426	gamma-Terpinene	1056	20.06%	
20.160	trans-Sabinene hydrate	1067	0.05%	
20.283	Unidentified	1069	0.02%	
21.169	Terpinolene	1083	0.05%	ALLERGEN
21.378	Fenchone	1086	0.03%	
21.515	Unidentified	1088	0.01%	
22.118	Linalool	1097	0.03%	ALLERGEN IFRA
22.186	cis-Sabinene hydrate	1098	0.02%	
23.793	cis-para-Menth-2-en-1-ol	1122	0.01%	
24.735	Nopinone	1136	0.01%	
24.892	trans-Pinocarveol	1138	0.03%	
25.030	Unidentified	1140	0.02%	
26.699	Unidentified	1164	0.04%	
27.029	Isoborneol	1169	0.01%	
27.170	Unidentified	1171	0%	
27.503	Unidentified	1176	0.01%	
27.637	Terpinen-4-ol	1178	0.13%	



Ret. Time	Component	Ret. Idx.	Conc. %	
28.082	para-Cymen-8-ol	1184	0.03%	
28.684	para-Menth-3-en-7-al	1193	0.51%	
29.442	Decanal	1204	0.01%	
30.443	2-Methyl-3-phenylpropanal	1219	0.04%	
30.691	4-Isopropylphenol	1223	0.03%	
31.063	3-Isopropylphenol	1228	0.01%	
32.028	Cuminal	1242	43.97%	IFRA
33.246	trans-2-Decenal	1260	0.03%	
33.644	Unidentified	1266	0.02%	
33.922	Unidentified	1270	0.01%	
34.031	Unidentified	1272	0.01%	
34.251	Phellandral	1275	0.12%	
34.531	Unidentified	1279	0.01%	
34.695	Bornyl acetate	1282	0.03%	
34.865	para-Mentha-1,3-dien-7-al	1284	6.04%	
35.159	para-Mentha-1,4-dien-7-al	1288	4.48%	
35.426	Unidentified	1292	0.01%	
35.627	Carvacrol	1295	0.02%	
37.311	Unidentified	1321	0%	
37.630	para-Mentha-1,4-dien-7-ol	1326	0.09%	
38.184	Unidentified	1334	0.02%	
38.259	Unidentified	1335	0.03%	
40.892	Daucene	1375	0.05%	
41.097	Unidentified	1379	0.02%	
42.776	Unidentified	1404	0.01%	
43.302	Unidentified	1413	0.03%	
43.481	beta-Caryophyllene	1416	0.04%	ALLERGEN
44.358	trans-alpha-Bergamotene	1430	0.01%	
45.601	trans-beta-Farnesene	1450	0.03%	
45.740	Unidentified	1452	0%	
46.000	Unidentified	1456	0.01%	
46.765	Dauca-5,8-diene	1468	0.02%	
46.939	beta-Acoradiene	1471	0.14%	
48.532	Isodaucene	1497	0.01%	
48.767	Unidentified	1500	0.02%	
48.990	beta-Bisabolene	1504	0.01%	
53.332	Caryophyllene oxide	1578	0.01%	
54.547	Carotol	1598	0.14%	

Total Identified Compounds **99.7 %**



TIC
13,326,278

