



Essential Oil University

GC/MS Report

Item	Lot
Cumin EO <i>Cuminum cyminum</i>	4D
Date	Analyst
1/30/2025	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:** 4D**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Egypt**Analysis Date:** 1/30/2025**Manufacture Date:** July 2023

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

+2.32

1.50822

0.92880



Ret. Time	Component	Ret. Idx.	Conc. %	
11.955	Cumene	917	0.01%	
12.099	alpha-Thujene	920	0.17%	
12.280	1-Isopropylcyclohex-1-ene	923	0.05%	
12.510	alpha-Pinene	927	0.53%	
13.420	Camphene	943	0.01%	
14.348	Unidentified	959	0.01%	
14.696	Sabinene	966	0.27%	
15.017	beta-Pinene	971	10.58%	
15.631	Myrcene	982	0.42%	
16.698	alpha-Phellandrene	1001	0.22%	
16.850	delta-3-Carene	1003	0.03%	
17.365	alpha-Terpinene	1011	0.11%	
17.869	para-Cymene	1019	11.81%	
18.146	Limonene	1023	0.26%	IFRA
18.246	beta-Phellandrene	1024	0.18%	
18.322	1,8-Cineole	1025	0.09%	
20.075	gamma-Terpinene	1052	20.45%	
20.805	trans-Sabinene hydrate	1063	0.02%	
21.842	Terpinolene	1079	0.04%	
22.157	para-Cymenene	1083	0.01%	
22.786	Linalool	1093	0.03%	IFRA
22.870	Unidentified	1094	0.02%	
25.603	trans-Pinocarveol	1134	0.02%	
25.724	Unidentified	1135	0.01%	
27.417	Unidentified	1160	0.03%	
28.363	Terpinen-4-ol	1173	0.13%	
28.783	para-Cymen-8-ol	1179	0.03%	
29.403	para-Menth-3-en-7-al	1188	0.59%	
30.148	Decanal	1199	0.01%	
31.164	2-Methyl-3-phenylpropanal	1214	0.03%	
31.408	Unidentified	1217	0.02%	
31.789	Unidentified	1223	0.02%	
32.768	Cuminal	1237	42.09%	IFRA
33.970	Dec-(2E)-enal	1255	0.02%	
34.387	Unidentified	1261	0.02%	
35.003	Phellandral	1270	0.1%	
35.471	Unidentified	1276	0.01%	
35.617	para-Mentha-1,3-dien-7-al	1279	6.16%	
35.909	para-Mentha-1,4-dien-7-al	1283	4.8%	
36.360	Thymol	1289	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
38.380	para-Mentha-1,4-dien-7-ol	1320	0.1%	
38.955	Unidentified	1328	0.04%	
40.632	Unidentified	1354	0.01%	
41.703	Daucene	1370	0.03%	
41.847	Unidentified	1372	0.01%	
44.071	Cumic acid	1406	0.07%	
44.309	beta-Caryophyllene	1410	0.02%	
45.167	trans-alpha-Bergamotene	1424	0.01%	
46.395	trans-beta-Farnesene	1443	0.02%	
47.599	Dauca-5,8-diene	1463	0.01%	
47.773	beta-Acoradiene	1465	0.12%	
55.395	Carotol	1592	0.12%	

Total Identified Compounds **99.79 %**

