



Essential Oil University

GC/MS Report

Item	Lot
Hyssop decumbens EO <i>Hyssopus officinalis</i> var. <i>decumbens</i>	0J
Date	Analyst
5/1/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Hyssop decumbens EO, meets the expected chemical profile for authentic essential oil of *Hyssopus officinalis* var. *decumbens*. 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:** Hyssop decumbens EO**Botanical Name:** Hyssopus officinalis var.
decumbens**Lot Number:** 0J**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Spain**Analysis Date:** 5/1/2025**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

-5.64

1.46534

0.87454



Ret. Time	Component	Ret. Idx.	Conc. %	
4.002	3-Methylbutanal	650	0%	
9.637	Unidentified	881	0.02%	
11.418	Hashishene	919	0%	
11.536	Tricyclene	922	0.41%	
11.684	alpha-Thujene	924	1.23%	
12.088	alpha-Pinene	932	3.11%	
12.404	beta-Fenchene	938	0.01%	
12.876	alpha-Fenchene	946	0.06%	
12.973	Camphene	948	2.59%	
14.221	Sabinene	971	1.75%	
14.524	beta-Pinene	977	4.97%	
14.833	Unidentified	982	0.01%	
15.009	para-Menth-3-ene	986	0.01%	
15.144	Myrcene	988	2.05%	
16.045	Pseudolimonene	1004	0.12%	
16.192	alpha-Phellandrene	1006	0.04%	
16.330	delta-3-Carene	1008	0.07%	
16.843	alpha-Terpinene	1016	0.02%	
17.325	para-Cymene	1024	0.05%	
17.636	Limonene	1028	7.27%	IFRA
17.730	beta-Phellandrene	1030	0.05%	
17.829	1,8-Cineole	1031	17.58%	
18.016	cis-beta-Ocimene	1034	0.29%	
18.691	trans-beta-Ocimene	1045	0.55%	
19.467	gamma-Terpinene	1057	0.02%	
20.259	cis-Linalool oxide (furanoid)	1069	0.06%	
21.260	Terpinolene	1084	0.01%	
21.325	trans-Linalool oxide (furanoid)	1085	0.15%	
22.372	Linalool	1101	50.91%	IFRA
23.469	beta-Thujone	1117	0.01%	IFRA
23.538	endo-Fenchol	1118	0.01%	
24.140	allo-Ocimene	1127	0.05%	
24.318	Unidentified	1130	0.01%	
24.990	trans-Pinocarveol	1139	0.03%	
25.425	Camphor	1146	0.02%	
26.038	Myrtenyl methyl ether	1155	0.05%	
26.345	trans-Pinocamphone	1159	0.24%	
26.467	Pinocarvone	1161	0.02%	
27.420	Isopinocamphone	1175	1.37%	
27.733	Terpinen-4-ol	1179	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
28.230	Unidentified	1187	0.01%	
28.767	Myrtenol	1194	0.08%	
28.949	Estragole	1197	0.03%	IFRA
41.307	beta-Bourbonene	1382	0.03%	
43.590	beta-Caryophyllene	1417	2.36%	
46.097	Alloaromodendrene	1458	0.03%	
47.412	Germacrene D	1479	0.05%	
48.299	Bicyclogermacrene	1493	0.05%	
51.460	alpha-Elemol	1546	0.01%	
53.442	Caryophyllene oxide	1579	2.13%	
72.856	meta-Camphorene	1944	0.01%	

Total Identified Compounds **99.98 %**

