



Essential Oil University

GC/MS Report

Item	Lot
Tarragon Oil, USA <i>Artemisia dracunculus</i>	4X
Date	Analyst
1/24/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Tarragon Oil, USA, meets the expected chemical profile for authentic essential oil of *Artemisia dracunculus*. 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:** Tarragon Oil, USA**Botanical Name:** *Artemisia dracunculus***Lot Number:** 4X**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** USA**Analysis Date:** 1/24/2025**Manufacture Date:** August 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

+2.52

1.51402

0.93839



Ret. Time	Component	Ret. Idx.	Conc. %	
3.985	3-Methylbutanal	648	0%	
4.509	2-Ethyl furan	700	0.02%	
5.094	3-Methylbutanol	728	0%	
9.002	Hexanol	864	0%	
9.959	Nonene	889	0.01%	
12.076	alpha-Pinene	932	1.1%	
12.964	Camphene	948	0.04%	
14.214	Sabinene	971	0.08%	
14.511	beta-Pinene	976	0.19%	
15.138	Myrcene	988	0.27%	
16.041	Pseudolimonene	1004	0.05%	
17.326	allo-Ocimene	1024	0.03%	
17.619	Limonene	1028	3.14%	IFRA
17.796	1,8-Cineole	1031	0.06%	
18.029	cis-beta-Ocimene	1034	6.59%	
18.706	trans-beta-Ocimene	1045	7.21%	
20.488	Pinene oxide analogue	1072	0.03%	
21.160	Ocimene analogue	1083	0.01%	
21.255	Terpinolene	1084	0.14%	
21.680	Rosefuran	1091	0.01%	
21.900	alpha-Pinene oxide	1094	0.03%	
22.203	Linalool	1099	0.07%	IFRA
24.135	allo-Ocimene	1127	0.56%	
24.895	cis-Myroside	1138	0.03%	
24.943	neo-allo-Ocimene	1139	0.05%	
25.837	Unidentified	1152	0.01%	
27.543	Menthol	1177	0.06%	
27.754	Unidentified	1180	0.02%	
28.517	Methyl salicylate	1191	0.02%	
28.765	alpha-Terpineol	1194	0.07%	
29.124	Estragole	1200	78.62%	IFRA
29.550	Unidentified	1206	0.01%	
29.651	Unidentified	1207	0.02%	
32.576	Unidentified	1250	0.01%	
33.729	Unidentified	1267	0.04%	
34.786	Bornyl acetate	1283	0.12%	
34.958	trans-Anethole	1285	0%	
38.175	delta-Elemene	1334	0.01%	
39.212	Eugenol	1350	0.06%	IFRA
41.361	trans-Methyl cinnamate	1383	0.03%	



Ret. Time	Component	Ret. Idx.	Conc. %	
42.381	Methyleugenol	1398	0.42%	IFRA
43.600	trans-beta-Caryophyllene	1418	0.23%	
43.735	Unidentified	1420	0.02%	
45.841	alpha-Humulene	1454	0.01%	
47.263	Unidentified	1476	0%	
47.438	Germacrene D	1479	0.06%	
48.067	cis,trans-alpha-Farnesene	1489	0.05%	
48.320	Bicyclogermacrene	1493	0.04%	
48.897	trans,trans-alpha-Farnesene	1503	0.01%	
52.642	trans-para-Methoxy cinnamaldehyde	1566	0.1%	
53.144	Spathulenol	1574	0.13%	
61.242	Herniarin	1718	0.02%	IFRA
63.698	Benzyl benzoate	1764	0.08%	IFRA
70.029	Unidentified	1887	0.05%	

Total Identified Compounds **99.86 %**

