



Essential Oil University

GC/MS Report

Item	Lot
Ravensara (Aromatica) EO <i>Ravensara aromatica</i>	0J
Date	Analyst
1/23/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Ravensara (Aromatica) EO, meets the expected chemical profile for authentic essential oil of *Ravensara aromatica*. 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:** Ravensara (Aromatica) EO**Botanical Name:** Ravensara aromatica**Lot Number:** 0J**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Madagascar**Analysis Date:** 1/23/2025**Manufacture Date:** April 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

-23.16

1.48176

0.88121



Ret. Time	Component	Ret. Idx.	Conc. %	
11.569	Tricyclene	919	0.01%	
11.718	alpha-Thujene	921	0.46%	
12.126	alpha-Pinene	929	5.44%	
12.915	alpha-Fenchene	943	0.03%	
13.010	Camphene	945	0.76%	
14.288	Sabinene	968	14.43%	
14.570	beta-Pinene	973	4.06%	
15.189	Myrcene	985	1.74%	
16.044	alpha-Terpinene	1000	0.02%	
16.242	alpha-Phellandrene	1003	2.3%	
16.392	delta-3-Carene	1005	5.66%	
16.751	1,4-Cineole	1011	0.02%	
16.893	alpha-Terpinene	1013	1.9%	
17.046	Cymene isomer	1016	0.07%	
17.371	para-Cymene	1021	0.79%	
17.704	Limonene	1026	16.55%	IFRA
17.788	beta-Phellandrene	1027	0.88%	
17.857	1,8-Cineole	1028	1.22%	
18.067	cis-beta-Ocimene	1031	1.84%	
18.221	2-Heptyl Acetate	1034	0.08%	
18.743	trans-beta-Ocimene	1042	0.15%	
19.184	alpha-Thujene	1048	0.02%	
19.524	gamma-Terpinene	1054	1.09%	
20.290	trans-4-Thujanol	1065	0.11%	
21.042	Terpinolene isomer	1077	0.02%	
21.302	Terpinolene	1081	0.37%	
22.285	Linalool	1096	6.58%	IFRA
23.392	Terpinolene	1112	0.01%	
23.933	cis-para-Menth-2-en-1-ol	1120	0.03%	
24.185	allo-Ocimene	1124	0.13%	
25.152	trans-para-Menth-2-en-1-ol	1138	0.02%	
27.182	Borneol	1167	0.32%	
27.796	Terpinen-4-ol	1176	3.53%	
28.214	para-Cymen-8-ol	1182	0.01%	
28.786	alpha-Terpineol	1190	0.48%	
29.001	trans-Anethole	1194	1.92%	
29.328	alpha-Phellandrene epoxide	1198	0.02%	
32.798	Unidentified	1249	0.02%	
34.836	Bornyl acetate	1279	0.09%	
34.985	Anethole isomer	1281	0.03%	



Ret. Time	Component	Ret. Idx.	Conc. %	
35.453	Unidentified	1288	0.09%	
37.177	Unidentified	1314	0.02%	
37.997	Elemene isomer	1327	0.04%	
38.221	delta-Elemene	1330	0.56%	
38.994	alpha-Cubebene	1342	0.48%	
39.257	Eugenol	1346	0.03%	IFRA
40.443	alpha-Ylangene	1364	0.03%	
40.862	alpha-Copaene	1370	1.29%	
41.276	Elemene isomer	1377	0.03%	
41.376	beta-Bourbonene	1378	0.04%	
41.650	Unidentified diene	1382	0.25%	
41.758	beta-Elemene	1384	0.85%	
42.460	Methyleugenol	1395	5.45%	IFRA
42.635	alpha-Dihydroionone	1397	0.02%	
42.876	alpha-Gurjunene	1401	0.04%	
43.668	beta-Caryophyllene	1414	5.21%	
44.301	beta-Copaene	1424	0.08%	
44.648	alpha-Guaiene	1429	0.03%	
44.833	Copaene isomer	1432	0.04%	
45.025	6,9-Guaiadiene	1435	0.04%	
45.500	Cadinadiene isomer	1443	0.14%	
45.771	cis-beta-Farnesene	1447	0.02%	
45.899	alpha-Humulene	1449	0.8%	
46.170	Alloaromodendrene	1454	0.31%	
46.304	cis-Cadina-1(6),4-diene	1456	0.02%	
46.934	trans-Cadina-1(6),4-diene	1466	0.1%	
47.119	gamma-Muurloene	1469	0.19%	
47.235	Unidentified	1471	0.01%	
47.495	Germacrene D	1475	4.03%	
47.655	Cedrene-V6	1478	0.02%	IFRA
47.865	delta-Selinene	1481	0.05%	
47.979	beta-Selinene	1483	0.14%	
48.143	gamma-Amorphene	1485	0.22%	
48.371	Bicyclogermacrene	1489	0.78%	
48.575	alpha-Murolene	1492	0.25%	
48.745	Unidentified	1495	0.02%	
48.835	delta-Cadinene	1497	0.04%	
48.940	Unidentified	1498	0.02%	
49.145	beta-Bisabolene	1502	0.08%	
49.447	gamma-Cadinene	1507	0.22%	



Ret. Time	Component	Ret. Idx.	Conc. %	
49.566	Cubebol	1509	0.13%	
49.758	delta-Cadinene	1512	1.15%	
49.949	cis-Calamenene	1515	0.08%	
50.025	Zonarene	1516	0.03%	
50.602	trans-Cadine-1,4-diene	1526	0.15%	
50.851	alpha-Cadinene	1530	0.05%	
51.532	alpha-Elemol	1542	1.92%	
52.146	Germacrene B	1552	0.03%	
52.829	Palustrol	1564	0.02%	
53.193	Spathulenol	1570	0.06%	
53.502	Caryophyllene oxide	1575	0.12%	
53.725	Unidentified	1579	0.02%	
54.370	Guaiol	1590	0.07%	
54.827	Ledol	1597	0.01%	
55.300	Rosifoliol	1606	0%	
56.157	Epicubenol	1621	0.09%	
56.382	gamma-Eudesmol	1625	0.09%	
56.962	alpha-Muurolol	1635	0.11%	
57.063	epi-alpha-Muurolol	1637	0.12%	
57.207	delta-Cadinol	1640	0.06%	
57.702	Cubenol isomer	1648	0.37%	
57.856	Intermedeol	1651	0.04%	

Total Identified Compounds **99.56 %**

