



Essential Oil University

GC/MS Report

Item	Lot
Rose EO	7B
<i>Rosa damascena</i>	
Date	Analyst
1/23/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Rose EO, meets the expected chemical profile for authentic essential oil of *Rosa damascena*. 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:** Rose EO**Botanical Name:** Rosa damascena**Lot Number:** 7B**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Bulgaria**Analysis Date:** 1/23/2025**Manufacture Date:** November 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

-2.24

1.46271

0.86414



Ret. Time	Component	Ret. Idx.	Conc. %	
2.855	Unidentified	531	0%	
2.944	Ethanol	540	0.12%	
4.533	Pentanal	696	0.01%	
5.134	Pentanol	726	0.01%	
5.211	2-Methylbutanol	729	0.01%	
8.591	Hex-(3Z)-enol	849	0.01%	
9.066	Hexanol	861	0.06%	
10.556	Heptanal	900	0.04%	
12.196	alpha-Pinene	930	0.24%	
14.348	Sabinene	969	0.02%	
14.645	beta-Pinene	974	0.05%	
14.988	6-Methyl hept-5-en-2-one	981	0.02%	
15.283	Myrcene	986	0.14%	
16.994	alpha-Terpinene	1014	0.01%	
17.767	Limonene	1026	0.03%	IFRA
17.934	Unidentified	1029	0.01%	
18.172	Unidentified	1032	0.01%	
18.668	cis-beta-Ocimene	1040	0.01%	
18.853	trans-beta-Ocimene	1043	0.02%	
19.630	gamma-Terpinene	1055	0.02%	
20.407	cis-Sabinene hydrate	1067	0.01%	
21.433	Terpinolene	1082	0.01%	
21.855	Unidentified	1089	0.01%	
22.374	Linalool	1097	0.42%	IFRA
22.737	Nonanal	1102	0.02%	
23.152	Phenylethyl alcohol	1108	1.66%	
24.188	trans-Rose oxide	1123	0.08%	
25.945	Nerol oxide	1149	0.03%	
26.618	Unidentified	1159	0.01%	
27.310	Unidentified	1169	0.01%	
27.918	Terpinen-4-ol	1177	0.14%	
28.923	alpha-Terpineol	1192	0.12%	
30.396	7-Methyl-3-methylene-6-octen-1-ol	1214	0.02%	
30.976	Nerol	1222	9.79%	
31.209	Citronellol	1225	28.61%	IFRA
31.319	Isogeraniol	1227	0.2%	
31.878	Neral	1235	0.47%	IFRA
32.000	Isogeraniol isomer	1237	0.09%	
32.791	Geraniol	1249	19.31%	IFRA
32.929	2-Phenethyl acetate	1251	0.22%	



Ret. Time	Component	Ret. Idx.	Conc. %	
33.572	Unidentified	1260	0.01%	
33.878	Geranial	1265	0.71%	IFRA
34.803	Unidentified	1278	0.01%	
35.600	Unidentified	1290	0.01%	
36.612	Undecenal	1305	0.01%	
37.461	Methyl geranate	1318	0.05%	
39.326	Citronellyl acetate	1346	0.21%	IFRA
39.413	Eugenol	1348	0.64%	IFRA
39.905	Neryl acetate	1355	0.05%	
40.467	Unidentified	1364	0%	
41.181	Geranyl acetate	1375	0.81%	
41.548	beta-Bourbonene	1380	0.04%	
41.929	beta-Elementene	1386	0.05%	
42.587	Methyleugenol	1396	1.73%	IFRA
43.824	beta-Caryophyllene	1416	0.31%	
44.477	beta-Copaene	1426	0.01%	
44.822	alpha-Guaiene	1432	0.16%	
46.069	alpha-Humulene	1452	0.15%	
47.296	Unidentified	1471	0.01%	
47.664	Germacrene D	1477	0.56%	
47.916	Phenylethyl-2-methylbutyrate	1481	0.02%	
48.151	beta-Selinene	1485	0.01%	
48.581	Aciphyllene	1492	0.05%	
48.937	Pentadecane	1498	0.41%	
49.116	trans,trans-alpha-Farnesene	1500	0.06%	
49.566	Unidentified	1508	0.02%	
49.939	delta-Cadinene	1514	0.02%	
51.699	Elemol	1544	0.07%	
52.465	trans-Nerolidol	1557	0.02%	
53.693	Unidentified	1578	0.02%	
54.462	Unidentified	1591	0.01%	
54.859	Hexadecane	1597	0.05%	
56.567	gamma-Eudesmol	1627	0.05%	
57.520	Unidentified	1644	0.01%	
57.890	alpha-Eudesmol	1651	0.1%	
59.169	Tetradecanol	1674	0.18%	
59.956	(2Z,6Z)-Farnesol	1688	0.06%	IFRA
60.497	Heptadecane	1697	1.81%	
60.879	(2Z,6Z)-Farnesol isomer	1704	0.01%	IFRA
61.206	(2E,6E)-Farnesol	1711	0.94%	IFRA



Ret. Time	Component	Ret. Idx.	Conc. %	
62.363	(E,E)-Farnesal	1732	0.03%	IFRA
63.927	Benzyl benzoate	1761	0.04%	IFRA
64.489	Octadec-1-ene	1772	0.03%	
65.442	Unidentified	1790	0.01%	
65.842	Octadecane	1797	0.15%	
68.043	Unidentified	1840	0.01%	
68.481	Phenethyl benzoate	1849	0.05%	
69.195	Unidentified	1863	0.02%	
69.599	Hexadecanol	1871	3.36%	
69.964	Unidentified	1878	0.01%	
70.305	Unidentified	1884	0.02%	
70.609	Unidentified	1890	0.02%	
70.983	Nonadecane	1898	14.69%	
74.473	Eicosene	1969	0.08%	
75.805	Eicosane	1997	1.19%	
78.114	Unidentified	2046	0.01%	
78.699	Unidentified	2059	0.01%	
79.158	Tricosene isomer	2069	0.08%	
79.925	Tricosene isomer	2085	0.1%	
80.059	Tricosene isomer	2088	0.02%	
80.204	Unidentified	2091	0.07%	
80.465	Heneicosane	2097	6.47%	
80.766	Unidentified	2103	0.04%	
82.250	Unidentified	2137	0.01%	
84.895	Docosane	2196	0.11%	
87.346	Unidentified	2254	0.01%	
88.738	Tricos-(9Z)-ene	2286	0.09%	
89.164	Tricosane	2296	1.3%	
89.409	Unidentified	2302	0.02%	
93.257	Tetracosane	2396	0.04%	
97.182	Pentacosane	2496	0.26%	
104.619	Heptacosane	2695	0.16%	
111.530	Unidentified	2895	0.01%	

Total Identified Compounds **99.62 %**

