



Essential Oil University

GC/MS Report

Item	Lot
NOP Eucalyptus EO radiata <i>Eucalyptus radiata</i>	05
Date	Analyst
8/29/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, NOP Eucalyptus EO radiata, meets the expected chemical profile for authentic essential oil of *Eucalyptus radiata*. 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:** NOP Eucalyptus EO radiata**Botanical Name:** Eucalyptus radiata**Lot Number:** 0S**Production Method:** Steam distilled**Sample Type:** EO - Certified Organics**Country of Origin:** South Africa**Analysis Date:** 8/29/2025**Manufacture Date:** February 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

+2.16

1.46386

0.91625



Ret. Time	Component	Ret. Idx.	Conc. %	
6.666	Unidentified	797	0.01%	
8.527	Hex-(3Z)-enol	847	0.03%	
8.921	Hex-(2E)-enol	857	0.01%	
9.047	Hexanol	860	0.02%	
11.755	alpha-Thujene	922	0.22%	
12.159	alpha-Pinene	929	2.8%	
12.948	alpha-Fenchene	943	0.01%	
13.041	Camphene	945	0.02%	
14.304	Sabinene	968	2.06%	
14.598	beta-Pinene	973	0.88%	
15.234	Myrcene	985	1.71%	
16.140	Pseudolimonene	1001	0.02%	
16.281	alpha-Phellandrene	1003	0.52%	
16.943	alpha-Terpinene	1014	0.26%	
17.437	para-Cymene	1021	0.39%	
17.779	Limonene	1026	7.41%	IFRA
18.003	1,8-Cineole	1030	63.94%	
18.116	cis-beta-Ocimene	1032	0.03%	
18.793	trans-beta-Ocimene	1042	0.2%	
19.575	gamma-Terpinene	1054	0.43%	
20.338	trans-Sabinene hydrate	1066	0.14%	
21.375	Terpinolene	1081	0.16%	
21.440	trans-Linalool oxide (furanoid)	1082	0.01%	
22.313	Linalool	1096	0.54%	IFRA
22.380	cis-Sabinene hydrate	1097	0.08%	
23.991	cis-para-Menth-2-en-1-ol	1120	0.14%	
25.217	trans-para-Menth-2-en-1-ol	1138	0.1%	
25.648	Unidentified	1144	0.01%	
25.906	Citronellal	1148	0.02%	IFRA
27.135	delta-Terpineol	1166	0.24%	
27.413	trans-Linalool oxide (pyranoid)	1170	0.02%	
27.855	Terpinen-4-ol	1176	1.13%	
28.270	Cryptone	1183	0.02%	
28.926	alpha-Terpineol	1192	12.47%	
29.010	cis-Piperitol	1193	0.06%	
29.815	trans-Piperitol	1205	0.07%	
30.123	Unidentified	1210	0.02%	
30.847	Nerol	1220	0.04%	
31.000	Citronellol	1222	0.05%	IFRA
31.779	Neral	1234	0.12%	IFRA



Ret. Time	Component	Ret. Idx.	Conc. %	
32.013	Methyl phenethyl ketone	1237	0.03%	
32.610	Geraniol	1246	1.17%	IFRA
32.835	Piperitone	1249	0.05%	
33.795	Geranial	1263	0.22%	IFRA
34.202	cis-Ascrinol glycol	1269	0.01%	
37.240	Unidentified	1314	0.02%	
37.350	Unidentified	1316	0.01%	
38.089	delta-Elemene	1327	0.01%	
38.500	Unidentified	1334	0%	
39.043	alpha-Terpinyl acetate	1342	1.47%	
41.110	Geranyl acetate	1373	0.02%	
41.849	beta-Elemene	1385	0.01%	
42.021	Unidentified	1387	0.01%	
43.743	trans-beta-Caryophyllene	1414	0.2%	
44.927	Unidentified	1433	0.01%	
45.986	alpha-Humulene	1450	0.02%	
46.267	Alloaromadendrene	1455	0.02%	
48.204	Viridiflorene	1486	0.02%	
48.470	Bicyclogermacrene	1490	0.2%	
49.863	Unidentified	1513	0.01%	
51.621	alpha-Elemol	1543	0.02%	
53.292	Spathulenol	1571	0.01%	
53.828	Unidentified	1580	0%	
56.516	Unidentified	1627	0.04%	
57.771	Eudesmol isomer	1649	0.02%	
57.807	alpha-Eudesmol	1650	0.02%	

Total Identified Compounds **99.89 %**



TIC
37,696,210

