



Essential Oil University

GC/MS Report

Item	Lot
NOP Eucalyptus EO radiata <i>Eucalyptus radiata</i>	2G
Date	Analyst
12/6/2024	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:** 2G**Production Method:** Steam distilled**Sample Type:** EO - Certified Organics**Country of Origin:** South Africa**Analysis Date:** 12/6/2024**Manufacture Date:** July 2021

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

+2.28

1.46344

0.91604



Ret. Time	Component	Ret. Idx.	Conc. %	
14.009	alpha-Thujene	953	0.18%	
14.464	alpha-Pinene	961	2.43%	
15.333	alpha-Fenchene	977	0.01%	
15.438	Camphene	979	0.02%	
16.769	Sabinene	1002	1.98%	
17.100	beta-Pinene	1007	0.71%	
17.708	Myrcene	1016	1.36%	
18.706	Pseudolimonene	1031	0.01%	
18.855	alpha-Phellandrene	1033	0.44%	
19.541	alpha-Terpinene	1044	0.19%	
20.055	para-Cymene	1052	0.26%	
20.389	Limonene	1057	5.78%	IFRA
20.520	beta-Phellandrene	1059	1.76%	
20.666	1,8-Cineole	1061	68.6%	
21.421	trans-beta-Ocimene	1072	0.13%	
22.254	gamma-Terpinene	1085	0.33%	
23.068	cis-Linalool oxide (furanoid)	1097	0.02%	
24.098	Terpinolene + trans-Linalool oxide (furanoid)	1112	0.11%	IFRA
25.011	Linalool	1125	0.33%	
25.120	cis-Sabinene hydrate	1127	0.02%	
26.777	cis-para-Menth-2-en-1-ol	1150	0.12%	
28.008	trans-para-Menth-2-en-1-ol	1168	0.08%	
29.943	delta-Terpineol	1196	0.16%	
30.186	cis-Linalool oxide (pyranoid)	1199	0.02%	
30.668	Terpinen-4-ol	1206	0.8%	
31.724	alpha-Terpineol	1222	11.33%	
32.616	trans-Piperitol	1235	0.04%	
32.963	Unidentified	1240	0.01%	
33.620	Nerol	1249	0.01%	
33.774	Unidentified	1252	0.03%	IFRA
34.550	Neral	1263	0.09%	
35.327	Geraniol	1274	0.71%	IFRA
35.675	Piperitone	1279	0.02%	
36.548	Geranial	1292	0.1%	IFRA
40.865	Unidentified	1357	0.01%	
41.776	alpha-Terpinyl acetate	1371	1.24%	
44.598	beta-Elemene	1415	0.01%	
46.550	beta-Caryophyllene	1446	0.19%	
48.789	alpha-Humulene	1482	0.02%	
49.058	Alloaromadendrene	1486	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
50.958	Viridiflorene	1517	0.01%	
51.232	Bicyclogermacrene	1522	0.24%	
54.331	alpha-Elemol	1574	0.01%	
56.578	Globulol	1612	0%	
59.206	gamma-Eudesmol	1659	0.02%	
60.515	alpha-Eudesmol	1682	0.02%	

Total Identified Compounds **99.92 %**

