



Essential Oil University

GC/MS Report

Item	Lot
Eucalyptus globulus EO, Australia <i>Eucalyptus globulus</i>	1AA
Date	Analyst
12/5/2024	Dr. Robert S. Pappas

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The analysis of this batch sample, Eucalyptus globulus EO, Australia, meets the expected chemical profile for authentic essential oil of *Eucalyptus globulus*. 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:** Eucalyptus globulus EO, Australia**Botanical Name:** Eucalyptus globulus**Lot Number:** 1AA**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Australia**Analysis Date:** 12/5/2024**Manufacture Date:** September 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

+3.48

1.46042

0.91333



Ret. Time	Component	Ret. Idx.	Conc. %	
5.092	Isopentyl alcohol	728	0.02%	
11.419	Hashishene	919	0.01%	
11.686	alpha-Thujene	924	0.02%	
12.089	alpha-Pinene	932	3.44%	
12.877	alpha-Fenchene	946	0.01%	
12.973	Camphene	948	0.02%	
13.174	Thuja-2,4(10)-diene	952	0%	
14.226	Unidentified	971	0.01%	
14.521	beta-Pinene	977	0.37%	
15.149	Myrcene	988	0.53%	
16.050	Pseudolimonene	1004	0.01%	
16.115	Unidentified	1005	0.02%	
16.198	alpha-Phellandrene	1006	0.85%	
16.854	alpha-Terpinene	1016	0.17%	
17.346	para-Cymene	1024	2.96%	
17.663	Limonene	1029	7.18%	IFRA
17.918	1,8-Cineole	1033	81.7%	
18.032	cis-beta-Ocimene	1034	0.08%	
18.710	trans-beta-Ocimene	1045	0.02%	
19.481	gamma-Terpinene	1057	1.76%	
20.266	trans-Linalool oxide (furanoid)	1069	0.01%	
20.387	Pinol	1071	0.01%	
21.264	Terpinolene	1084	0.07%	
21.592	para-Cymenene	1089	0.01%	
22.214	Linalool	1099	0.03%	IFRA
23.523	endo-Fenchol	1118	0%	
24.155	allo-Ocimene	1127	0.01%	
24.994	trans-Pinocarveol	1139	0.02%	
27.036	delta-Terpineol	1169	0.01%	
27.741	Terpinen-4-ol	1179	0.07%	
28.743	alpha-Terpineol	1194	0.12%	
32.325	Unidentified	1247	0.01%	
34.789	Bornyl acetate	1283	0.01%	
38.913	alpha-Terpinyl acetate	1345	0.4%	
39.031	gamma-Terpinyl acetate	1347	0.04%	

Total Identified Compounds **99.96 %**

