



Essential Oil University

GC/MS Report

Eucalyptus Blue (Bicostata) EO

Eucalyptus bicostata

Item | Lot

6AG

Date | Analyst

6/16/2025

Dr. Robert S. Pappas

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The analysis of this batch sample, Eucalyptus Blue (Bicostata) EO, meets the expected chemical profile for authentic essential oil of *Eucalyptus bicostata*. 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 Blue (Bicostata) EO**Botanical Name:** Eucalyptus bicostata**Lot Number:** 6AG**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Australia**Analysis Date:** 6/16/2025**Manufacture Date:** December 2022

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

+0.68

1.46057

0.92243



Ret. Time	Component	Ret. Idx.	Conc. %	
3.975	3-Methylbutanal	647	0.18%	
5.073	3-Methyl-1-butanol	727	0.02%	
5.821	Toluene	763	0%	
7.480	Isovaleric acid isomer	823	0.01%	
7.544	Isovaleric acid	825	0.02%	
11.366	Hashishene	918	0.02%	
11.631	alpha-Thujene	923	0.01%	
12.034	alpha-Pinene	931	2.97%	
12.824	alpha-Fenchene	945	0.01%	
12.915	Camphene	947	0.02%	
13.115	Thuja-2,4(10)-diene	951	0%	
14.165	Sabinene	970	0.02%	
14.457	beta-Pinene	975	0.13%	
15.089	Myrcene	987	0.05%	
15.140	Unidentified	988	0.01%	
15.985	Pseudolimonene	1003	0%	
16.130	alpha-Phellandrene	1005	0.3%	
16.272	delta-3-Carene	1007	0.02%	
16.789	alpha-Terpinene	1015	0.02%	
17.277	para-Cymene	1023	0.7%	
17.603	Limonene	1028	1.93%	IFRA
17.854	1,8-Cineole	1032	86.7%	
19.407	gamma-Terpinene	1056	0.06%	
20.199	cis-Linalool oxide (furanoid)	1068	0.01%	
21.190	Terpinolene	1083	0.29%	
21.517	para-Cymenene	1088	0.03%	
22.137	Linalool	1098	0.04%	IFRA
23.450	endo-Fenchol	1117	0.02%	
23.630	Unidentified	1120	0.01%	
23.986	alpha-Campholenal	1125	0.01%	
24.920	trans-Pinocarveol	1138	0.24%	
25.063	Epoxyterpinolene	1140	0.01%	
25.959	Unidentified	1154	0.01%	
26.954	delta-Terpineol	1168	0.08%	
27.063	Borneol	1170	0.03%	
27.527	Unidentified	1176	0.02%	
27.664	Terpinen-4-ol	1178	0.8%	
28.140	trans-Isocarveol	1185	0.12%	
28.683	alpha-Terpineol	1193	3.58%	
29.007	trans-Carveol	1198	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
29.212	alpha-Phellandrene epoxide	1201	0.01%	
30.292	trans-Carveol	1217	0.02%	
30.794	Unidentified	1224	0.01%	
30.987	cis-para-Mentha-1(7),8-dien-2-ol	1227	0.09%	
31.591	Neral	1236	0.07%	IFRA
31.987	Carvone	1242	0.02%	IFRA
32.409	Geraniol	1248	0.48%	IFRA
33.606	Geranial	1265	0.13%	IFRA
35.460	Unidentified	1293	0.01%	
35.645	Carvacrol	1295	0.02%	
37.057	Unidentified	1317	0.03%	
37.182	Methyl geranate	1319	0.17%	
40.719	alpha-Copaene	1373	0.01%	
43.510	beta-Caryophyllene	1416	0.2%	
44.692	beta-Copaene	1435	0.02%	
46.030	Alloaromadendrene	1457	0.01%	
47.962	Unidentified	1488	0.01%	
48.233	alpha-Himachalene	1492	0.01%	
53.584	Viridiflorol	1582	0.01%	
56.154	Unidentified	1627	0.02%	
56.260	Unidentified	1629	0.01%	
57.525	alpha-Eudesmol	1651	0.19%	

Total Identified Compounds **99.92 %**

