



Essential Oil University

GC/MS Report

Item	Lot
Manuka EO <i>Leptospermum scoparium</i>	6AE
Date	Analyst
11/7/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Manuka EO, meets the expected chemical profile for authentic essential oil of *Leptospermum scoparium*. 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:** Manuka EO**Botanical Name:** Leptospermum scoparium**Lot Number:** 6AE**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** New Zealand**Analysis Date:** 11/7/2025**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

-26.68

1.50120

0.95990



Ret. Time	Component	Ret. Idx.	Conc. %	
6.469	Isopropyl ketone	788	0.01%	
6.678	Octane	797	0.02%	
8.845	Ethylbenzene	855	0.02%	
11.793	alpha-Thujene	922	0.03%	
12.196	alpha-Pinene	930	1.89%	ALLERGEN
14.341	Sabinene	969	0.01%	
14.640	beta-Pinene	974	0.22%	ALLERGEN
14.987	6-Methyl-hept-5-en-2-one	981	0.02%	
15.276	Myrcene	986	0.49%	PROP. 65
16.193	Hex-(3Z)-enyl acetate	1002	0.09%	
16.311	Unidentified	1004	0.02%	
16.646	Isoamyl isobutyrate	1009	0.02%	
16.982	alpha-Terpinene	1014	0.03%	ALLERGEN
17.457	para-Cymene	1021	0.18%	
17.752	Limonene	1026	0.14%	ALLERGEN IFRA
17.860	beta-Phellandrene	1028	0.01%	
17.917	1,8-Cineole	1029	0.24%	
18.834	trans-beta-Ocimene	1043	0.04%	
19.618	gamma-Terpinene	1055	0.17%	
21.421	Terpinolene	1082	0.05%	ALLERGEN
22.362	Linalool	1097	0.1%	ALLERGEN IFRA
22.724	Nonanal	1102	0.02%	
22.806	Isoamyl isovalerate	1103	0.17%	
22.950	2-Methylbutyl isovalerate	1105	0.06%	
23.154	Unidentified	1108	0.01%	
23.456	3-Methylbut-3-enyl 3-methylbutyrate	1113	0.27%	
25.640	Unidentified	1144	0.03%	
27.902	Terpinen-4-ol	1177	0.07%	
28.819	2-Methyl-1-butyl tiglate	1190	0.11%	
28.899	alpha-Terpineol	1192	0.05%	ALLERGEN
29.301	3-Methyl 3-butenyl tiglate	1197	0.06%	
32.167	3-Methyl 2-butenyl tiglate	1240	0.05%	
33.513	Dec-(2E)-enal	1259	0.03%	
34.388	Unidentified	1272	0.05%	
38.144	delta-Elementene	1328	0.02%	
39.147	alpha-Cubebene	1344	3.63%	
40.586	alpha-Ylangene	1366	0.22%	
40.675	Isodene	1367	0.03%	
41.017	alpha-Copaene	1372	5.46%	
41.416	Elementene isomer	1378	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %	
41.527	Unidentified	1380	0.07%	
41.610	Unidentified	1381	0.02%	
41.795	beta-Cubebene	1384	0.11%	
41.902	beta-Elemene	1386	1.26%	
42.206	Benzyl isovalerate	1390	0.23%	
43.021	alpha-Gurjunene	1403	0.94%	
43.262	beta-Maaliene	1407	0.02%	
43.413	Gurjunene isomer	1409	0.03%	
43.799	beta-Caryophyllene	1415	2.52%	ALLERGEN
44.268	gamma-Maaliene	1423	0.05%	
44.461	beta-Copaene	1426	0.24%	
44.673	trans-alpha-Bergamotene	1429	0.11%	
44.986	Aromadendrene	1434	1.77%	
45.173	6,9-Guaiadiene	1437	0.14%	
45.413	Prenyl benzoate	1441	0.18%	
45.470	Unidentified	1442	0.07%	
45.657	trans-Murrola-3,5-diene	1445	6.16%	
45.889	Unidentified	1449	0.06%	
46.042	alpha-Humulene	1451	0.43%	
46.177	Unidentified	1453	0.02%	
46.322	Alloaromodendrene	1456	0.69%	
46.952	4,5-di-epi-Aristolochene	1466	0.07%	
47.085	trans-Cadina-1(6),4-diene	1468	3.83%	
47.266	gamma-Murolene	1471	0.92%	
47.376	gamma-Gurjunene	1473	0.11%	
47.528	alpha-Amorphene	1475	0.18%	
47.633	Germacrene D	1477	0.28%	
47.854	Unidentified	1480	0.03%	
48.136	beta-Selinene	1485	5.59%	
48.291	gamma-Amorphene	1487	1.76%	
48.573	alpha-Selinene	1492	5.2%	
48.725	alpha-Murolene	1494	0.75%	
48.927	Unidentified	1497	0.1%	
48.990	Unidentified	1498	0.11%	
49.101	trans,trans-alpha-Farnesene	1500	0.95%	
49.232	Unidentified	1502	0.05%	
49.600	gamma-Cadinene	1509	0.67%	
49.938	delta-Cadinene	1514	4.89%	
50.135	trans-Calamenene	1518	12.21%	
50.771	trans-Cadine-1,4-diene	1528	5.31%	



Ret. Time	Component	Ret. Idx.	Conc. %
50.876	Unidentified	1530	0.23%
50.994	Flavesone	1532	5%
51.260	alpha-Calacorene	1537	0.57%
51.432	Unidentified	1539	0.06%
51.645	Unidentified	1543	0.02%
51.775	Unidentified	1545	0.04%
52.490	beta-Calacorene	1557	0.16%
52.704	Unidentified	1561	0.14%
52.820	Unidentified	1563	0.02%
52.989	Palustrol	1566	0.09%
53.347	Spathulenol	1572	0.4%
53.660	Caryophyllene oxide	1577	0.5%
53.885	Globulol	1581	0.18%
53.957	Unidentified	1582	0.18%
54.386	Viridiflorol	1589	0.13%
54.517	Cubeban-11-ol	1591	0.08%
54.648	Unidentified	1594	0.02%
54.837	Unidentified	1597	0.04%
54.980	Ledol	1599	0.16%
55.152	Unidentified	1602	0.04%
55.370	Isoleptospermone	1606	3.78%
55.610	Unidentified	1610	0.04%
55.714	Maaliol	1612	0.15%
55.953	Leptospermone	1617	11.87%
56.050	Unidentified	1618	0.21%
56.323	Epicubenol	1623	0.83%
56.590	Unidentified	1628	0.22%
56.839	Unidentified	1632	0.04%
57.173	Unidentified	1638	1.15%
57.367	tau-Cadinol	1642	0.09%
57.520	Unidentified	1644	0.03%
57.870	Unidentified	1651	0.34%
58.016	Intermedeol	1653	0.22%
58.369	Unidentified	1660	0.02%
58.694	Unidentified	1665	0.07%
58.834	Cadalene	1668	0.2%
59.146	beta-Copaen-4-alfa-ol analogue	1673	0.11%
59.345	Unidentified	1677	0.04%
61.181	Unidentified	1710	0.02%
61.735	Unidentified	1720	0.1%



Ret. Time	Component	Ret. Idx.	Conc. %	
65.153	Unidentified	1784	0.02%	
83.130	Grandiflorone	2157	0.13%	

Total Identified Compounds **96.32 %**



TIC
9,370,450

