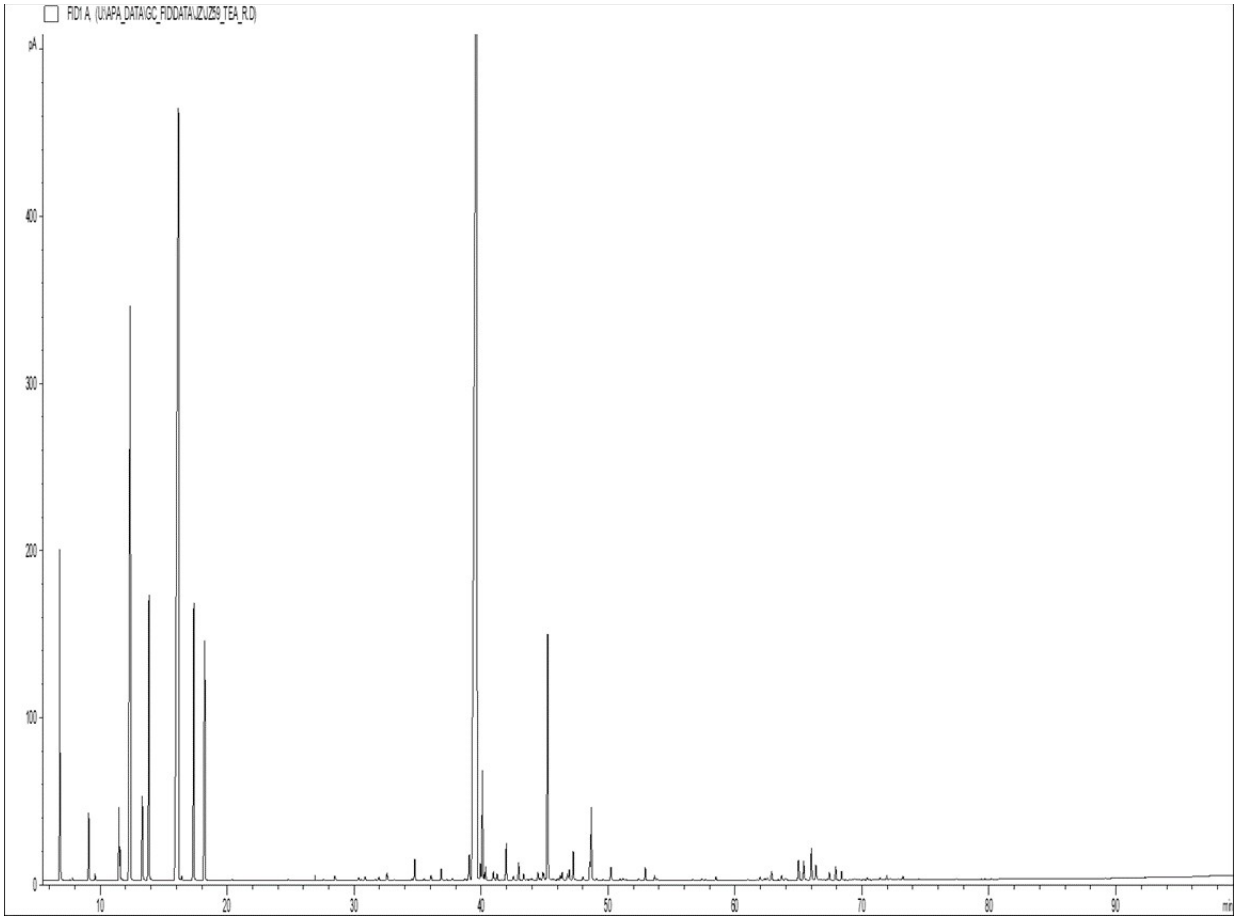
MALIKA ESSENTIALS

GC/MS ANALYSIS REPORT

Product Name	Tea Tree Essential Oil (Australia)
Botanical Name	Melaleuca alternifolia
Analysis Date	September 11, 2023

Note: This GC/MS report is a representative analysis of this product. Due to volume turnover, it is not specific to an individual lot; specific lots may vary slightly, as is the case with natural products. The lot-specific quality document for each batch is its Certificate of Analysis.

Chromatogram



Identified Compounds

Peak	RT (min)	Compound name	%
1	5.21	BUTANAL, 2-METHYL-	0.01
2	6.82	alpha-PINENE	2.36
3	6.87	alpha-THUYENE	0.82
4	7.83	CAMPHENE	0.02
5	9.10	beta-PINENE	0.65
6	9.59	SABINENE	0.06
7	11.47	beta-MYRCENE	0.78
8	11.56	alpha-PHELLANDRENE	0.35
9	11.71	psi-LIMONENE	0.02
10	12.36	alpha-TERPINENE	8.91
11	13.31	LIMONENE	1.03
12	13.83	1,8-CINEOLE	3.02
13	14.00	beta-PHELLANDRENE	0.62
14	16.16	gamma-TERPINENE	20.29
15	16.40	trans-beta-OCIMENE	0.05
16	17.36	p-CYMENE	3.39
17	18.23	TERPINOLENE	3.19
18	20.36	3-HEXEN-1-OL ACETATE	0.01
19	24.80	3-HEXEN-1-OL	0.02
20	25.61	MENTHATRIENE ISOMER	0.01
21	27.58	DIMETHYLSTYRENE ISOMER	0.02
22	28.47	alpha,p-DIMETHYLSTYRENE	0.08
23	30.35	alpha-CUBEBENE	0.04
24	30.53	trans-THUYANOL	0.02
25	30.87	SESQUITERPENE	0.06
26	31.66	BICYCLOELEMENE	0.02
27	31.94	SESQUITERPENE	0.06
28	32.58	alpha-COPAENE	0.12
29	33.16	CAMPHOR	0.01
30	34.54	SESQUITERPENE	0.03
31	34.77	alpha-GURJUNENE	0.30
32	35.48	SESQUITERPENE	0.03
33	36.06	LINALOOL	0.07
34	36.87	trans-p-MENTH-2-EN-1-OL	0.16
35	37.28	SESQUITERPENE	0.02
36	37.75	TERPINENE-1-OL	0.03
37	38.13	BORNYL ACETATE	0.02
38	38.71	SESQUITERPENE	0.03
39	39.08	beta-CARYOPHYLLENE	0.40
40	39.68	TERPINENE-4-OL	41.35
41	39.95	SESQUITERPENE	0.17
42	40.12	AROMADENDRENE	1.13
43	40.23	SESQUITERPENE	0.06
44	40.35	COPACAMPHENE	0.15
45	40.98	cis-p-MENTH-2-EN-1-OL	0.14
46	41.00	GURJUNENE ISOMER	0.02
47	41.27	CADINA-3,5-DIENE	0.06
48	41.81	SESQUITERPENE	0.01
49	41.98	ALLO-AROMADENDRENE	0.47
50	42.56	gamma-GURJUNENE	0.05
51	42.96	ZONARENE	0.23
52	43.36	alpha-HUMULENE	0.09
53	43.60	delta-TERPINEOL	0.01
54	43.85	gamma-SELINENE	0.01
55	43.99	cis-PIPERITOL	0.04
56	44.48	LAVANDULAL	0.11
57	44.64	gamma-MUUROLENE	0.04

58	44.86	CALARENE ISOMER	0.11
59	44.95	SESQUITERPENE	0.08
60	45.26	alpha-TERPINEOL	2.35
61	45.30	LEDENE	1.21
62	45.66	BORNEOL	0.03
63	46.04	SESQUITERPENE	0.02
64	46.24	GERMACRENE D	0.06
65	46.39	beta-SELINENE	0.11
66	46.80	alpha-SELINENE	0.09
67	46.95	alpha-MUUROLENE	0.15
68	47.27	BICYCLOGERMACRENE	0.38
69	47.46	SESQUITERPENE	0.02
70	48.02	trans-PIPERITOL	0.05
71	48.57	gamma-CADINENE	0.22
72	48.69	delta-CADINENE	1.01
73	49.10	SESQUITERPENE Mw=202	0.03
74	50.23	CADINA-1,4-DIENE	0.17
75	50.96	SESQUITERPENE Mw=202	0.02
76	51.19	NEROL	0.02
77	51.39	AROMATIC COMPOUND	0.01
78	52.42	SESQUITERPENE	0.02
79	52.94	cis-CALAMENENE	0.17
80	53.67	p-CYMENE-8-OL	0.06
81	53.89	GERANIOL	0.02
82	56.67	COMPOUND Mw=200	0.01
83	57.39	alpha-CALACORENE	0.02
84	57.68	COMPOUND Mw=220	0.01
85	58.49	PALUSTROL	0.04
86	61.03	CARYOPHYLLENE OXIDE	0.02
87	61.98	SESQUITERPENOL	0.05
88	62.28	SESQUITERPENOL	0.02
89	62.41	SESQUITERPENOL	0.02
90	62.57	METHYLEUGENOL	0.03
91	62.89	Epi-GLOBULOL	0.11
92	63.68	LEDOL	0.06
93	63.97	SESQUITERPENOL	0.04
94	65.01	GLEENOL	0.17
95	65.10	Epi-CUBENOL	0.12
96	65.42	CUBENOL	0.25
97	66.02	GLOBULOL	0.43
98	66.38	VIRIDIFLOROL	0.24
99	67.43	10-epi-gamma-EUDESMOL	0.11
100	67.94	ROSIFOLIOL	0.18
101	68.40	SPATHULENOL	0.13
102	69.43	AROMATIC COMPOUND	0.02
103	69.64	AROMATIC COMPOUND	0.02
104	70.40	SORBIC ACID	0.03
105	71.44	alpha-MUUROLOL	0.03
106	71.96	delta-CADINOL	0.06
107	72.26	CARVACROL	0.03
108	72.84	AROMATIC COMPOUND	0.02
109	73.23	alpha-NOOTKATOL	0.04
110	74.46	EUDESMA-7(11)-EN-4-OL	0.01
		TOTAL	**99.96**

Faithful copy of the GC/MS analysis report. The original document is kept in the MALIKA Essentials archives.