

Manuka

Leptospermum scoparium

Australia

Batch No. AU-59253

Monoterpenes	4.55%	Ketones	0.02%	Sesquiterpenes	74.67%
limonene	2.89	2-hexanone	0.01	β selinene	12.70
α pinene	0.80	6-methyl-5-hepten-2-one	0.01	α selinene	12.22
myrcene	0.36			cis calamenene	7.45
β pinene	0.21			dauca-5,8-diene	5.89
γ terpinene	0.12			β caryophyllene	5.14
para cymene	0.08			β elemene	5.10
isoterpinolene	0.03	Phenols	0.05%	cis-Muurola-3,5-diene	4.90
sabinene	0.02	methyl eugenol	0.05	β cadinene	4.82
2-carene	0.02			α muurolene	3.50
(Z) β ocimene	0.02			α cubebene	3.31
				α copaene	1.69
				γ muurolene	1.42
Monoterpenols	0.25%	Other	6.28%	β maaliene	0.99
linalool	0.18	leptospermone	2.90	α humulene	0.88
terpinen-4-ol	0.07	iso-leptospermone	2.19	α amorphene	0.76
		flavesone	1.16	γ cadinene	0.57
		(E) hex-3-en-1-ol	0.02	cis-cadina-1(6),4-diene	0.56
Aldehydes	0.02%	1-hexanol	0.01	β humulene	0.53
octanal	0.01			(E,E) α farnesene	0.40
decanal	0.01			allo-aromadendrene	0.36
				seychellene	0.33
				δ cadinene	0.30
Esters	0.6%	Sesquiterpenols	8.8%	α calacorene	0.27
methyl (E) cinnamate	0.21	β eudesmol	3.90	(E) α bergamotene	0.17
benzyl isovalerate	0.12	10,epi γ eudesmol	1.40	sibirene	0.14
isoamyl benzoate	0.11	pogostol	0.81	β gurjunene	0.13
(Z) 3-hexenyl acetate	0.08	1-epi-cubenol	0.75	γ selinene	0.07
trans-pinocarvyl acetate	0.07	1,10-di-epi-cubenol	0.72	α gurjunene	0.03
hexyl acetate	0.01	globulol	0.50	δ elemene	0.01
		guaiol	0.28	β patchoulene	0.01
		gleenol	0.20	(E) β farnesene	0.01
Ethers	0.51%	maaliol	0.12	δ guaiene	0.01
caryophyllene oxide	0.27	α muurolol	0.10		
1,8 cineole	0.20	alohimachalol	0.02		
allo-aromadendrene epoxide	0.04				

Client



Source



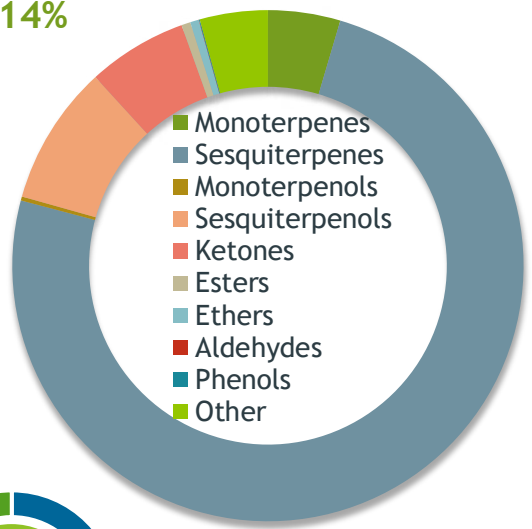
Manuka (*Leptospermum scoparium*)
AU-59253

Sample

Manuka (*Leptospermum scoparium*)
Batch #:..... AU-59253
Type:..... Essential Oil
CAS Number:... 223749-44-8
Nature's Gift

Sesquiterpenes

74.14%



Client



Website



Primary

12.70% | beta-Selinene
12.22% | alpha-Selinene
7.45% | cis-Calamenene



Percentage Identified

Result



Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Manuka (*Leptospermum scoparium*)

Internal Number: | EVS-5006



Essential Validation Services

747 SW 2nd Ave IMB 12 Suite 306
Gainesville, FL 32601

317.361.5044 | <https://essentialvalidationservices.com/>

Alan Christen

Monoterpenes	4	4.55%
Sesquiterpenes	74.14%	74.14%
Monoterpenols		0.25%
Sesquiterpenols	8.8	8.80%
Ketones	6	6.27%
Esters		0.57%
Ethers		0.54%
Aldehydes		0.02%
Phenols		0.05%
Other	4	4.28%

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Client



Source

Manuka (*Leptospermum scoparium*)

AU-59253

Total Percentage		95.75%		
Number	RT	Area %	Compound Name	Chemical Family
1	3.88	0.01%	2-Hexanone	Aliphatic Ketone
2	5.50	0.02%	(E)-Hex-3-en-1-ol	Aliphatic Alcohol
3	5.92	0.01%	1-Hexanol	Aliphatic Alcohol
4	7.99	0.80%	alpha-Pinene	Monoterpene
5	9.53	0.02%	Sabinene	Monoterpene
6	9.69	0.21%	beta-Pinene	Monoterpene
7	10.09	0.01%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
8	10.28	0.36%	Myrcene	Monoterpene
9	10.86	0.01%	Octanal	Aliphatic Aldehyde
10	10.96	0.08%	(Z)-3-Hexenyl acetate	Aliphatic Ester
11	11.28	0.01%	Hexyl acetate	Aliphatic Ester
12	11.38	0.02%	2-Carene	Monoterpene
13	11.71	0.08%	para-Cymene	Monoterpene
14	11.92	2.89%	Limonene	Monoterpene
15	12.01	0.20%	1,8-Cineole	Monoterpene Ether
16	12.75	0.02%	(Z)-beta-Ocimene	Monoterpene
17	13.22	0.12%	gamma-Terpinene	Monoterpene
18	14.44	0.03%	Isoterpinolene	Monoterpene
19	15.17	0.18%	Linalool	Monoterpenol
20	18.75	0.07%	Terpinen-4-ol	Monoterpenol
21	20.05	0.01%	Decanal	Aliphatic Aldehyde
22	25.18	0.07%	trans-Pinocarvyl acetate	Monoterpene Ether
23	25.69	0.01%	delta-Elemene	Sesquiterpene
24	26.22	3.31%	alpha-Cubebene	Sesquiterpene
25	27.40	1.69%	alpha-Copaene	Sesquiterpene
26	27.76	0.21%	Methyl (E)-cinnamate	Phenylpropanoid Ester
27	28.04	5.10%	beta-Elemene	Sesquiterpene
28	28.26	0.12%	Benzyl isovalerate	Phenolic Ester
29	28.56	0.05%	Methyl eugenol	Phenylpropanoid
30	28.71	0.99%	beta-Maaliene	Sesquiterpene
31	28.84	0.01%	beta-Patchoulene	Sesquiterpene
32	28.94	0.03%	alpha-Gurjunene	Sesquiterpene
33	29.20	5.14%	beta-Caryophyllene	Sesquiterpene
34	29.63	0.14%	Sibirene	Sesquiterpene
35	29.87	0.17%	trans-alpha-Bergamotene	Sesquiterpene

Client



Source

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Number	RT	Area %	Compound Name	Chemical Family
36	29.965	0.53%	beta-Humulene	Sesquiterpene
37	30.04	0.11%	Isoamyl benzoate	Monoterpene Ester
38	30.15	0.13%	beta-Gurjunene	Sesquiterpene
39	30.44	4.90%	cis-Muurolo-3,5-diene	Sesquiterpene
40	30.66	0.88%	alpha-Humulene	Sesquiterpene
41	30.84	0.36%	allo-Aromadendrene	Sesquiterpene
42	31.17	0.01%	(E)-beta-Farnesene	Sesquiterpene
43	31.28	0.33%	Seychellene	Sesquiterpene
44	31.42	5.89%	Dauca-5,8-diene	Sesquiterpene
45	31.54	0.56%	cis-Cadina-1(6),4-diene	Sesquiterpene
46	31.87	0.07%	gamma-Selinene	Sesquiterpene
47	32.07	12.70%	beta-Selinene	Sesquiterpene
48	32.16	1.42%	gamma-Muuroloene	Sesquiterpene
49	32.38	12.22%	alpha-Selinene	Sesquiterpene
50	32.50	0.76%	alpha-Amorphene	Sesquiterpene
51	32.67	0.30%	delta-Cadinene	Sesquiterpene
52	32.87	0.40%	(E,E)-alpha-Farnesene	Sesquiterpene
53	33.04	0.57%	gamma-Cadinene	Sesquiterpene
54	33.33	4.82%	beta-Cadinene	Sesquiterpene
55	33.42	7.45%	cis-Calamenene	Sesquiterpene
56	33.66	0.01%	delta-Guaiene	Sesquiterpene
57	33.82	3.50%	alpha-Muuroloene	Sesquiterpene
58	34.03	1.16%	Flavesone	Triketone
59	34.12	0.27%	alpha-Calacorene	Sesquiterpene
60	35.63	0.27%	Caryophyllene oxide	Sesquiterpene Ether
61	35.80	0.12%	Maaliol	Sesquiterpenol
62	35.94	0.20%	Gleenol	Sesquiterpenol
63	36.90	2.19%	iso-Leptospermone	Triketone
64	37.02	0.50%	Globulol	Sesquiterpenol
65	37.26	2.90%	Leptospermone	Triketone
66	37.45	0.72%	1,10-di-epi-Cubenol	Sesquiterpenol
67	37.51	0.28%	Guaiol	Sesquiterpenol
68	37.60	1.40%	10-epi-gamma-Eudesmol	Sesquiterpenol
69	38.00	0.75%	1-epi-Cubenol	Sesquiterpenol
70	38.17	0.10%	alpha-Muurolol	Sesquiterpenol
71	38.44	3.90%	beta-Eudesmol	Sesquiterpenol

Client	 <i>Nature's Gift</i>	Source	
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Manuka (Leptospermum scoparium)
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72	38.52	0.81%	Pogostol	Sesquiterpenol
73	39.01	0.04%	allo-Aromadendrene epoxide	Sesquiterpene Ester
74	39.40	0.02%	Allohimachalol	Sesquiterpenol

- Essential Oil testing is performed by using qualitative GC-MS. Method: SOP.T.01 Client Method
 - This report may not be published without the consent of Essential Validation Services.
 - Chromatograph image may be requested
 - This report is valid for 1 year from the analyzed date