

Analyzed by : Dr. Robert S. Pappas
Analyzed : 05/16/2024 8:43:21 AM
Sample Type : Essential Oil
Sample Name : Sandalwood (album) EO
Sample ID : 3H
Injection Volume : 0.10
Instrument ID: : GC-3



R.Time	Name	Area%
9.866	Santene	0.03
27.968	N-Furfurylpyrrole	0.01
31.284	Unidentified	0.01
33.983	Teresantalic acid	0.05
38.795	alpha-Santalal	0.06
39.730	trans-alpha-Santalal	0.01
41.461	Unidentified	0.02
42.101	7-epi-Sesquithujene	0.01
42.895	Nortricycloekasantalic acid	0.02
44.092	alpha-Santalene	0.91
44.979	cis-alpha-Bergamotene	0.14
45.104	Unidentified	0.01
45.853	epi-beta-Santalene	0.84
46.251	cis-beta-Farnesene	0.01
46.613	beta-Santalene	1.36
47.039	Unidentified	0.02
47.143	Unidentified	0.01
47.762	gamma-Curcumene	0.08
47.957	alpha-Curcumene	0.11
48.144	trans-beta-Bergamotene	0.02
48.323	Unidentified	0.01
48.841	Tricycloekasantalic acid	0.03
49.619	beta-Bisabolene	0.04
49.717	beta-Curcumene	0.20
50.211	alpha-Teresantalic acid	0.23
50.591	Unidentified	0.01
50.749	cis-gamma-Bisabolene	0.01
51.315	Unidentified	0.02
51.651	Ionone isomer	0.34
51.965	beta-Selinene	0.02
52.322	Ionone isomer	0.13
52.754	trans-Nerolidol	0.05
53.236	Dendrolasin	0.01
53.518	Unidentified	0.02
53.851	trans-Sesquisabinene hydrate	0.08
54.072	Unidentified	0.01
54.153	Unidentified	0.02
54.868	Unidentified	0.01
55.280	Unidentified	0.04
55.366	Unidentified	0.02
55.509	Unidentified	0.02
55.782	Santalene isomer	0.02
55.889	Unidentified	0.06
56.158	Unidentified	0.01
56.577	Unidentified	0.02
56.680	Unidentified	0.01
56.830	Bergamotol isomer	0.04
56.900	Unidentified	0.02
57.158	alpha-Acorenol	0.09
58.025	Unidentified	0.02
58.149	Khusilal	0.62
58.462	trans-alpha-Santalal	0.51
58.755	cis-alpha-Santalal	0.14
58.930	Unidentified	0.55
59.450	cis-alpha-Santalol	48.27
59.768	Unidentified	0.18
60.115	cis-alpha-trans-Bergamotol	7.81
60.332	Santalol isomer	0.31
60.485	trans-alpha-Santalol	0.85
60.864	cis-epi-beta-Santalol	3.49
60.986	Unidentified	0.13
61.165	trans-alpha-trans-Bergamotol	0.50

The analysis of this Sandalwood (album) EO batch sample meets the expected chemical profile for authentic essential oil of *Santalum album*. 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.

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R.Time	Name	Area%
61.340	Unidentified	0.03
61.662	cis-beta-Santalol	22.63
61.753	trans-epi-beta-Santalol	0.43
61.957	cis-Nuciferol	0.91
62.131	epi-beta-Santalol isomer	0.28
62.390	Cyclocopacamphan-12-ol epimer B	0.36
62.505	Unidentified	0.01
62.772	trans-beta-Santalol	1.73
62.999	Unidentified	0.75
63.096	Bergamotol isomer	0.39
63.278	Unidentified	0.11
63.381	Bergamotol isomer	0.19
63.599	trans-Nuciferol	0.49
63.721	alpha-Teresantalic acid	0.42
63.953	cis-Lanceol	1.83
64.234	Santalol acetate isomer	0.08
64.701	Bergamotol isomer	0.05
64.886	Unidentified	0.02
64.985	Unidentified	0.02
65.097	Bergamotol isomer	0.09
65.572	Lanceol isomer	0.10
65.678	Unidentified	0.05
65.937	Unidentified	0.04
66.104	Unidentified	0.01
66.371	Unidentified	0.01
66.761	Unidentified	0.01
67.060	Unidentified	0.01
67.176	Bergamotol isomer	0.03
67.414	Unidentified	0.05
67.568	Unidentified	0.02
68.247	Unidentified	0.05
69.206	Unidentified	0.03
69.690	Unidentified	0.02
72.399	Unidentified	0.01
73.561	Unidentified	0.03
73.954	Unidentified	0.01
75.649	Unidentified	0.01
106.679	Unidentified	0.01
		100.00