



CERTIFICATE of ANALYSIS (COA)

COMMON NAME	Sandalwood, Australia - Premium
LATIN NAME	<i>Santalum spicatum</i>
COUNTRY OF ORIGIN	Australia
CULTIVATION METHOD	Wild Grown
TYPE	Essential Oil
EXTRACTION METHOD	Steam Distilled
PLANT PART	Heartwood
USE	Aromatherapy, Natural Perfumery

SKU	905
LOT #	14
MANUFACTURING DATE	November 2021
RETEST	November 2031

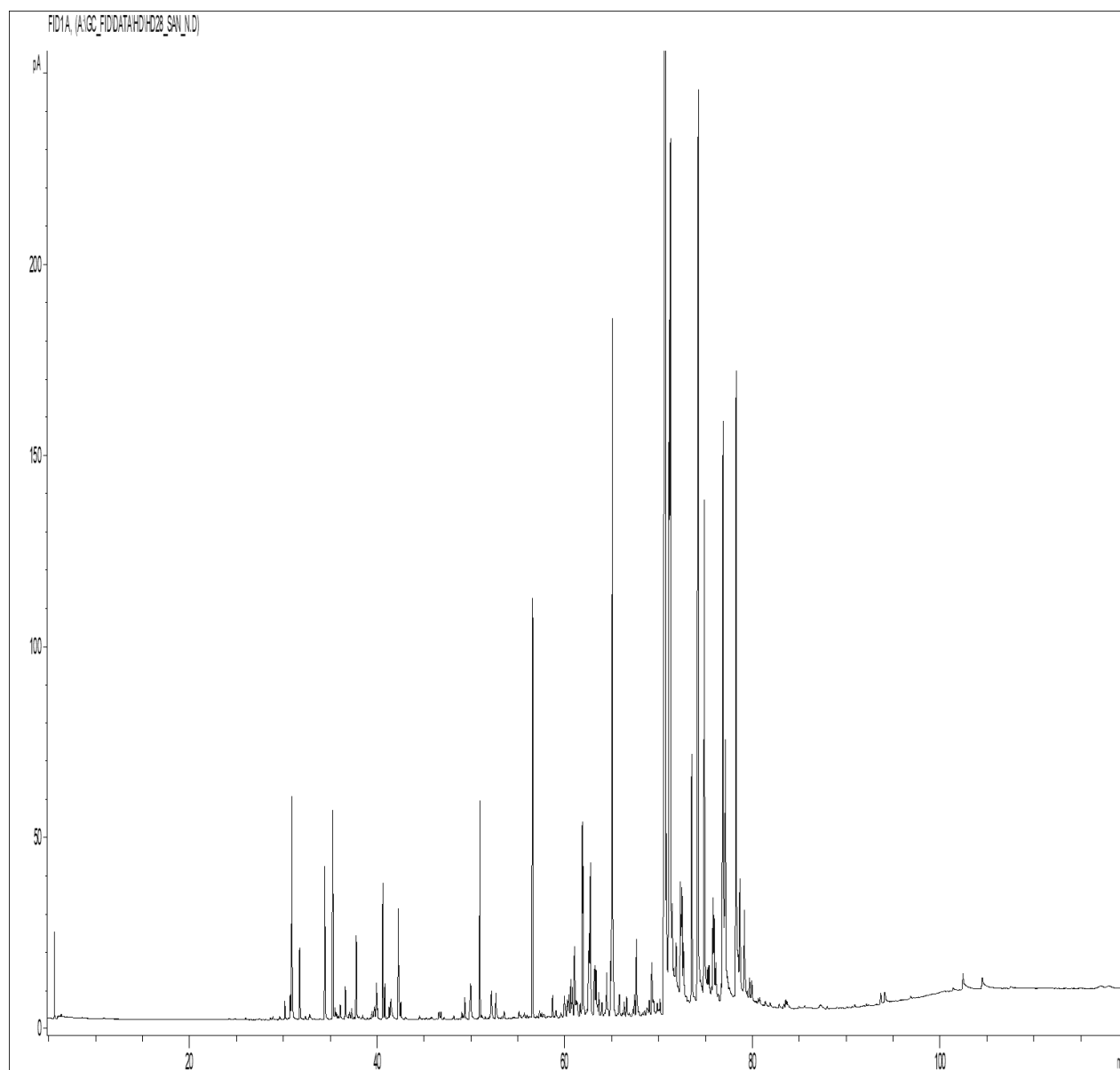
	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20°C	0.945 – 0.980	0.959
REFRACTIVE INDEX @20°C	1.500 – 1.517	1.5051
OPTICAL ROTATION @20°C	-16° to +4°	-4.5°

PHYSICAL APPEARANCE	Transparent liquid	Conforms
COLOR	Pale yellow to bright golden	Conforms
ODOR	Sweet, soft woody	Conforms
SOLUBILITY	Soluble in alcohol and fixed oils	
SPECIAL USE INSTRUCTIONS	Dilute before use	

PRIMARY CONSTITUENTS	Alpha-Santalol, Cis-Beta-Santalol, Cis-Nuciferol.
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THIRD PARTY LAB ANALYSIS (GCMS)

Chromatographic profile:



Identification results: SANDALWOOD AUSTRALIAN PREMIUM BATCH N° 905 LOT 14

Peaks	RT (min)	Compound name	%	Norm (%)	Allergens (%)
1	5.59	SANTENE	0.20		
2	28.64	CEDRENE ISOMER	0.02		
3	28.90	BERGAMOTENE ISOMER	0.02		
4	29.63	CEDRENE ISOMER	0.03		
5	30.18	alpha-cis-BERGAMOTENE	0.09		
6	30.75	alpha-CEDRENE	0.16		
7	30.94	alpha-SANTALENE	1.26		
8	31.76	alpha-trans-BERGAMOTENE	0.39		
9	32.36	beta-CEDRENE	0.02		
10	32.82	SANTALENE ISOMER	0.06		
11	34.45	epi-beta-SANTALENE	0.84		
12	35.29	beta-SANTALENE	1.14		
13	35.52	FARNESENE ISOMER	0.08		
14	35.68	alpha-ACORADIENE	0.05		
15	35.85	CURCUMENE ISOMER	0.02		
16	36.08	FARNESENE ISOMER	0.10		
17	36.63	CURCUMENE ISOMER	0.23		
18	37.06	CURCUMENE ISOMER	0.06		
19	37.30	E-beta-FARNESENE	0.07		
20	37.78	ISODAUCENE	0.05		
21	37.79	gamma-CURCUMENE	0.43		
22	38.09	SESQUITERPENE	0.03		
23	38.47	AROMATIC COMPOUND	0.03		
24	39.47	alpha-ZINGIBERENE	0.06		
25	39.64	SESQUITERPENE	0.03		
26	39.71	HIMACHALENE ISOMER	0.09		
27	39.95	beta-BISABOLENE	0.24		
28	40.06	HIMACHALENE ISOMER	0.05		
29	40.62	beta-CURCUMENE	0.70		
30	40.84	SESQUITERPENE	0.19		
31	41.29	E,E-alpha-FARNESENE	0.06		
32	41.47	SESQUITERPENE	0.14		
33	41.48	SESQUITERPENE	0.10		
34	42.27	alpha-CURCUMENE	0.78		
35	42.55	trans-alpha-BISABOLENE	0.10		
36	43.05	MENTHADIENOL ISOMER	0.02		
37	44.52	SESQUITERPENIC EPOXIDE	0.02		
38	45.24	COMPOUND Mw=216	0.02		
39	45.80	AROMATIC COMPOUND	0.01		
40	46.60	8,14-CEDRANOXIDE	0.05		
41	46.81	E-GERANYL ACETONE	0.05		
42	47.14	AROMATIC COMPOUND	0.01		
43	48.19	SESQUITERPENIC EPOXIDE	0.02		
44	49.05	AROMATIC COMPOUND	0.05		
45	49.19	AROMATIC COMPOUND	0.02		
46	49.36	AROMATIC COMPOUND	0.14		
47	49.98	SESQUITERPENIC EPOXIDE	0.36		
48	50.96	DENDROLASIN	1.07		
49	52.00	SESQUITERPENONE	0.01		
50	52.19	SESQUITERPENIC EPOXIDE	0.25		
51		SESQUITERPENONE			
52	52.67	AROMATIC COMPOUND	0.20		

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Peaks	RT (min)	Compound name	%	Norm (%)	Allergens (%)
53	53.29	SESQUITERPENIC EPOXIDE	0.01		
54	53.54	SESQUITERPENONE	0.06		
55	55.14	SESQUITERPENIC EPOXIDE	0.05		
56	55.30	SESQUITERPENIC EPOXIDE	0.02		
57	55.71	SESQUITERPENIC EPOXIDE	0.05		
58	56.01	SESQUITERPENONE	0.02		
59	56.31	SESQUITERPENONE	0.02		
60	56.59	NEROLIDOL	2.21		
61	57.34	SESQUITERPENONE	0.05		
62	57.55	AROMATIC COMPOUND	0.04		
63	57.78	AROMATIC COMPOUND	0.05		
64	58.15	SESQUITERPENIC EPOXIDE	0.01		
65	58.36	SESQUITERPENIC EPOXIDE	0.03		
66	58.52	SESQUITERPENIC EPOXIDE	0.01		
67	58.72	GUAJOL	0.14		
68	59.08	SANTALIC COMPOUND Mw=216	0.08		
69	59.61	AROMATIC COMPOUND	0.06		
70	59.98	AROMATIC COMPOUND	0.21		
71	60.30	SESQUITERPENOL	0.12		
72	60.45	AROMATIC COMPOUND Mw=162	0.18		
73	60.67	AROMATIC COMPOUND Mw=162	0.28		
74	60.84	SESQUITERPENOL	0.20		
75	61.06	SESQUITERPENONE	0.51		
76	61.25	SESQUITERPENIC EPOXIDE	0.13		
77	61.34	SESQUITERPENIC EPOXIDE	0.12		
78	61.66	SESQUITERPENOL	0.11		
79	61.89	epi-beta-BISABOLOL	1.09		
80	61.97	beta-BISABOLOL	0.70		
81	62.10	CURCUMENE ISOMER	0.05		
82	62.26	SESQUITERPENIC EPOXIDE	0.04		
83	62.40	SESQUITERPENOL	0.05		
84	62.61	alpha-SANTALAL	0.79		
85	62.75	SANTALIC COMPOUND Mw=218	1.13		
86	63.22	SANTALIC COMPOUND Mw=216	0.53		
87		BERGAMOTOL ISOMER			
88	63.35	BISABOLOL ISOMER	0.40		
89	63.64	SANTALOL ISOMER	0.16		
90	63.98	BISABOLOL ISOMER	0.14		
91	64.26	SANTALIC COMPOUND Mw=216	0.03		
92	64.48	BULNESOL	0.31		
93	64.61	SESQUITERPENIC EPOXIDE	0.07		
94	64.92	alpha-BISABOLOL	0.32		
95	65.12	Epi-alpha-BISABOLOL	4.78	0.2 - 12.5	
96	65.67	CURCUMENE ISOMER	0.03		
97	65.84	COMPOUND Mw=166	0.20		
98	66.17	SESQUITERPENONE	0.03		
99	66.36	SANTALOL ISOMER	0.11		
100	66.89	SESQUITERPENIC EPOXIDE	0.02		
101	67.26	SESQUITERPENIC EPOXIDE	0.04		
102	67.42	SESQUITERPENOL	0.13		
103	67.63	DIMETHYL METHYLPENTENYL NORBORNANOL	0.55		
104	67.91	SESQUITERPENIC EPOXIDE	0.04		

Identification results: SANDALWOOD AUSTRALIAN PREMIUM BATCH N° 905 LOT 14					
Peaks	RT (min)	Compound name	%	Norm (%)	Allergens (%)
105	68.49	ALIPHATIC ESTER	0.04		
106	68.78	SESQUITERPENOL	0.06		
107	69.01	SESQUITERPENOL	0.12		
108	69.27	SESQUITERPENIC EPOXIDE	0.43		
109	69.45	CURCUMENOL ISOMER	0.12		
110	69.60	SESQUITERPENOL	0.02		
111	69.87	SESQUITERPENOL	0.08		
112	70.05	SANTALIC COMPOUND Mw=216	0.05		
113	70.16	SESQUITERPENIC EPOXIDE	0.09		
114	70.75	Z-alpha-SANTALOL	25.40	15 - 30	
115	70.83	COMPOUND Mw=238	0.53		
116	71.14	Z-alpha-trans-BERGAMOTOL	3.53	2 - 10	
117	71.27	FARNESOL	5.94	2.5 - 18.0	5.94
118	71.45	BERGAMOTOL ISOMER	0.55		
119	71.88	CURCUMENE ISOMER	0.27		
120	72.32	BERGAMOTOL ISOMER	0.72		
121	72.47	SESQUITERPENIC EPOXIDE	0.79		
122	72.63	BERGAMOTOL ISOMER	0.41		
123	73.52	epi-beta-SANTALOL	1.51	0.5 - 3.5	
124	74.21	Z-beta-SANTALOL	9.97	4.5 - 20.0	
125	74.88	BERGAMOTOL ISOMER	3.32		
126	75.23	SESQUITERPENIC EPOXIDE	0.10		
127	75.39	SESQUITERPENOL	0.15		
128	75.64	SESQUITERPENOL	0.02		
129	75.79	Z-gamma-CURCUMENE-12-OL	0.45		
130	75.90	SANTALOL ISOMER	0.42		
131	76.09	SANTALOL ISOMER	0.18		
132	76.35	SESQUITERPENOL	0.03		
133	76.87	E-beta-CURCUMENE-12-OL	6.61		
134	77.13	LANCEOL	1.44	0.5 - 10.0	
135	77.36	BERGAMOTOL ISOMER	0.02		
136	78.26	NUCIFEROL	6.87	2 - 15	
137	78.65	BERGAMOTOL ISOMER	0.68		
138	79.13	AROMATIC COMPOUND Mw=200	0.59		
139	79.69	SESQUITERPENIC EPOXIDE	0.11		
140	79.93	AROMATIC COMPOUND	0.10		
141	80.62	AROMATIC COMPOUND	0.02		
142	80.77	BERGAMOTOL ISOMER	0.03		
143	81.37	SESQUITERPENIC EPOXIDE	0.05		
144	82.86	COMPOUND Mw=232	0.03		
145	83.36	COMPOUND Mw=234	0.03		
146	83.55	SESQUITERPENIC EPOXIDE	0.06		
147	83.68	SESQUITERPENIC EPOXIDE	0.05		
148	83.80	SESQUITERPENIC EPOXIDE	0.03		
149	84.96	ALIPHATIC ESTER	0.02		
150	85.55	SESQUITERPENONE	0.01		
151	87.25	SESQUITERPENIC EPOXIDE	0.09		
152	90.90	SESQUITERPENIC EPOXIDE	0.02		
153	96.89	PALMITIC ACID	0.02		
154	102.44	OLEIC ACID	0.17		
155	104.51	LINOLEIC ACID	0.15		
		TOTAL	99.16		5.94

This Essential Oil is a 100% pure and natural product. It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge. The analysis and statements herein constitute the most complete information available to Eden Botanicals. This product is guaranteed by Eden Botanicals to be of excellent quality.

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