CERTIFICATE of ANALYSIS (COA)

COMMON NAME	Sandalwood, Australia - Premium
LATIN NAME	*Santalum spicatum*
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 #	16
MANUFACTURING DATE	January 2024
BEST BY DATE	January 2034

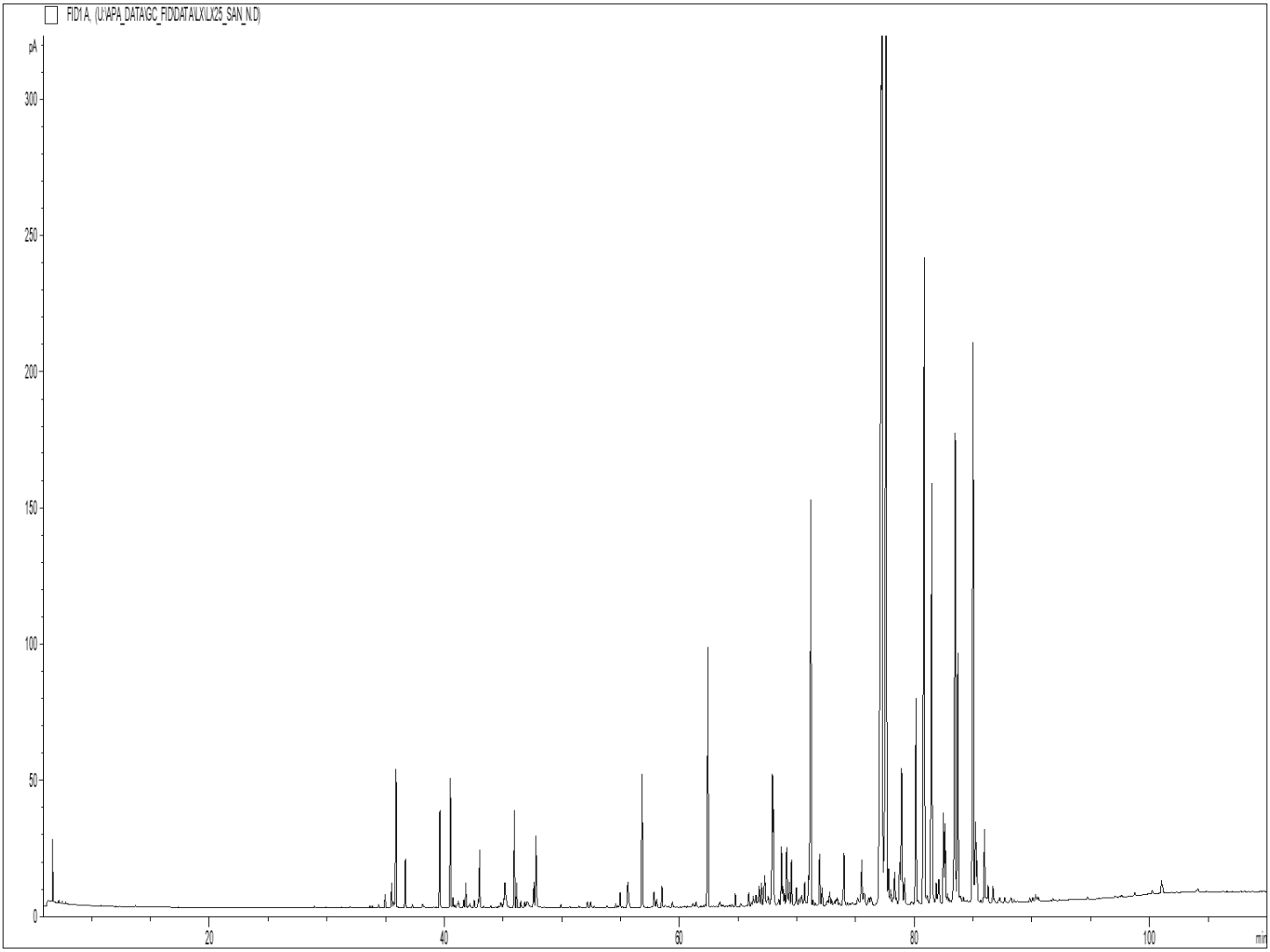
	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20˚C	0.945 - 0.980	0.960
REFRACTIVE INDEX @20˚C	1.500 – 1.517	1.5042
OPTICAL ROTATION @20˚C	-16˚ to +4˚	-3.19˚

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.

THIRD PARTY LAB ANALYSIS (GCMS)

CHROMATOGRAPHIC PROFILE :



- SANDALWOOD, AUSTRALIAN EO - SKU 905 LOT 16 -					
Peaks	**RT (min)**	**Compound name**	**%**	**Standard (%)**	**Allergens (%)**
1	6.67	SANTENE	0.22		
2	28.96	FURFURAL	0.02		
3	32.00	CEDRENE ISOMER	0.01		
4	33.66	BERGAMOTENE ISOMER	0.02		
5	33.88	TERPENIC COMPOUND	0.02		
6	34.40	CEDRENE ISOMER	0.03		
7	34.96	BERGAMOTENE ISOMER	0.10		
8	35.51	alpha-CEDRENE	0.20		
9	35.66	alpha-cis-BERGAMOTENE	0.06		
10	35.89	alpha-SANTALENE	1.17		
11	36.69	alpha-trans-BERGAMOTENE	0.37		
12	37.28	beta-CEDRENE	0.03		
13	38.16	SANTALENE ISOMER	0.07		
14	39.63	Epi-beta-SANTALENE	0.78		
15	40.53	beta-SANTALENE	1.06		
16	40.75	FARNESENE ISOMER	0.08		
17	40.90	CURCUMENE ISOMER	0.03		
18	41.21	TERPENIC COMPOUND	0.11		
19	41.65	E-beta-FARNESENE	0.07		
20	41.84	CURCUMENE ISOMER	0.20		
21	42.18	CURCUMENE ISOMER	0.07		
22	42.56	Z-beta-FARNESENE	0.07		
23	42.89	DAUCENE ISOMER	0.07		
24	43.02	gamma-CURCUMENE	0.45		
25	43.38	TERPENIC COMPOUND	0.02		
26	43.96	AROMATIC COMPOUND	0.02		
27	44.66	SESQUITERPENE	0.01		
28	44.80	alpha-SELINENE	0.05		
29	44.88	alpha-ZINGIBERENE	0.02		
30	45.08	TERPENIC COMPOUND	0.08		
31	45.17	beta-BISABOLENE	0.36		
32	45.48	TERPENIC COMPOUND	0.02		
33	45.96	beta-CURCUMENE	0.79		
34	46.18	SESQUITERPENE	0.18		
35	46.52	SESQUITERPENE	0.07		
36	46.86	SESQUITERPENE	0.06		
37	47.06	SESQUITERPENE	0.17		
38	47.64	beta-SESQUIPHELLANDRENE	0.24		
39	47.80	alpha-CURCUMENE	0.65		
40		trans-alpha-BISABOLENE			
41	49.93	OXIDE COMPOUND	0.03		
42	50.69	AROMATIC COMPOUND	0.03		
43	51.45	AROMATIC COMPOUND	0.02		

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Peaks	**RT (min)**	**Compound name**	**%**	**Standard (%)**	**Allergens (%)**
44	51.57	AROMATIC COMPOUND	0.01		
45	52.19	8,14-CEDRANOXIDE	0.06		
46	52.46	E-GERANYL ACETONE	0.06		
47	52.75	OXIDE COMPOUND	0.01		
48	53.86	AROMATIC COMPOUND	0.03		
49	54.59	SESQUITERPENIC COMPOUND	0.04		
50	54.74	AROMATIC COMPOUND	0.02		
51	54.97	AROMATIC COMPOUND	0.14		
52	55.62	AROMATIC COMPOUND	0.34		
53	56.83	DENDROLASIN	1.07		
54	57.86	AROMATIC COMPOUND	0.18		
55	58.08	AROMATIC COMPOUND	0.08		
56	58.53	COMPOUND Mw=220	0.18		
57	58.79	AROMATIC COMPOUND	0.05		
58	59.13	AROMATIC COMPOUND	0.02		
59	59.41	SESQUITERPENONE	0.06		
60	60.35	AROMATIC COMPOUND	0.02		
61	60.67	AROMATIC COMPOUND	0.01		
62	61.17	AROMATIC COMPOUND	0.05		
63	61.30	COMPOUND Mw=216	0.02		
64	61.44	SESQUITERPENIC COMPOUND	0.07		
65	61.85	SESQUITERPENIC COMPOUND	0.01		
66	62.05	AROMATIC COMPOUND	0.02		
67	62.23	COMPOUND Mw=238	0.03		
68	62.44	NEROLIDOL	2.28		
69	62.90	SESQUITERPENOL	0.02		
70	63.13	COMPOUND Mw=206	0.02		
71	63.47	SESQUITERPENIC COMPOUND	0.09		
72	63.74	AROMATIC COMPOUND	0.03		
73	63.95	AROMATIC COMPOUND	0.02		
74	64.16	AROMATIC COMPOUND	0.01		
75	64.32	p-CRESOL	0.02		
76	64.48	SESQUITERPENIC COMPOUND	0.04		
77	64.77	GUAIOL	0.11		
78	65.24	AROMATIC COMPOUND	0.05		
79	65.75	SESQUITERPENIC COMPOUND	0.02		
80	65.92	SESQUITERPENIC OXIDE	0.16		
81	66.15	AROMATIC COMPOUND	0.05		
82	66.29	AROMATIC COMPOUND Mw=162	0.14		
83	66.53	AROMATIC COMPOUND	0.14		
84	66.67	SESQUITERPENIC COMPOUND	0.04		
85	66.79	AROMATIC COMPOUND Mw=162	0.24		
86	67.00	AROMATIC COMPOUND Mw=162	0.23		

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Peaks	**RT (min)**	**Compound name**	**%**	**Standard (%)**	**Allergens (%)**
87	67.28	SESQUITERPENIC COMPOUND	0.44		
88	67.56	SANTALIC COMPOUND Mw=218	0.20		
89	67.93	Epi-beta-BISABOLOL	1.36		
90	68.02	beta-BISABOLOL	0.71		
91	68.48	ALIPHATIC ESTER	0.13		
92	68.69	alpha-SANTALAL	0.56		
93	68.82	SESQUITERPENOL	0.20		
94	68.97	SESQUITERPENIC COMPOUND	0.12		
95	69.15	SESQUITERPENOL	0.66		
96	69.38	AROMATIC COMPOUND	0.23		
97	69.56	SESQUITERPENIC COMPOUND	0.47		
98	69.97	SESQUITERPENOL	0.23		
99	70.20	COMPOUND Mw=238	0.09		
100	70.41	AROMATIC COMPOUND	0.17		
101	70.68	BULNESOL	0.27		
102	71.01	alpha-BISABOLOL	0.29		
103	71.21	**Epi-alpha-BISABOLOL**	**4.13**	**0.20 - 12.5**	
104	71.36	SESQUITERPENIC COMPOUND	0.06		
105	71.57	SESQUITERPENIC COMPOUND	0.04		
106	71.95	DIOL COMPOUND	0.50		
107	72.17	SESQUITERPENIC COMPOUND	0.19		
108	72.65	SESQUITERPENOL	0.11		
109	72.81	SESQUITERPENOL	0.15		
110	72.96	SESQUITERPENIC COMPOUND	0.06		
111	73.23	ALIPHATIC ESTER	0.07		
112	73.35	COMPOUND Mw=236	0.06		
113	73.44	FARNESYL ACETATE	0.08		
114	73.63	SESQUITERPENIC COMPOUND	0.05		
115	74.02	DIMETHYL METHYLPENTENYL NORBORNANOL	0.58		
116	74.31	SESQUITERPENIC COMPOUND	0.04		
117	74.51	AROMATIC COMPOUND	0.03		
118	74.69	ALIPHATIC ESTER	0.06		
119	75.01	AROMATIC COMPOUND	0.03		
120	75.19	COMPOUND Mw=238	0.14		
121	75.53	CURCUMENOL ISOMER	0.53		
122	75.71	AROMATIC COMPOUND	0.25		
123	76.11	SESQUITERPENIC COMPOUND	0.12		
124	76.28	SESQUITERPENOL	0.09		
125	76.36	SESQUITERPENIC COMPOUND	0.07		
126	77.28	**Z-alpha-SANTALOL**	**22.43**	**15.0 - 30.0**	22.43
127	77.39	COMPOUND Mw=238	0.34		
128	77.62	**Z-alpha-trans-BERGAMOTOL**	**12.11**	**2.0 - 10.0**	
129		**E,E-FARNESOL**		**2.5 - 18.0**	12.11

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Peaks	**RT (min)**	**Compound name**	**%**	**Standard (%)**	**Allergens (%)**
130	77.82	BERGAMOTOL ISOMER	0.40		
131	77.99	SESQUITERPENIC COMPOUND	0.18		
132	78.21	BERGAMOTOL ISOMER	0.07		
133	78.33	AROMATIC COMPOUND	0.35		
134	78.47	SESQUITERPENIC COMPOUND	0.07		
135	78.77	CURCUMENOL ISOMER	0.48		
136	78.92	COMPOUND Mw=238	1.53		
137	79.18	SANTALOL ISOMER	0.29		
138	79.74	SESQUITERPENIC COMPOUND	0.06		
139	80.14	**Epi-beta-SANTALOL**	**1.84**	**0.50 - 3.5**	
140	80.30	SANTALOL ISOMER	0.06		
141	80.85	**Z-beta-SANTALOL**	**7.57**	**4.5 - 20.0**	7.57
142	81.08	SANTALOL ISOMER	0.14		
143	81.48	**Z-gamma-CURCUMENE-12-OL**	**4.37**		
144	81.86	SANTALOL ISOMER	0.22		
145	82.08	SESQUITERPENIC COMPOUND	0.35		
146	82.48	SANTALOL ISOMER	0.84		
147	82.61	SANTALOL ISOMER	0.78		
148	82.81	CURCUMENOL ISOMER	0.10		
149	82.97	SESQUITERPENIC COMPOUND	0.05		
150	83.48	**E-beta-CURCUMENE-12-OL**	**5.57**		
151	83.71	**Z-LANCEOL**	**2.42**	**0.50 - 10.0**	
152	83.92	SESQUITERPENIC OXIDE	0.13		
153	84.16	SESQUITERPENIC OXIDE	0.08		
154	85.01	**Z-NUCIFEROL**	**5.77**	**2.0 - 15.0**	
155	85.21	AROMATIC COMPOUND	0.88		
156	85.32	AROMATIC COMPOUND	0.42		
157	85.97	SESQUITERPENIC COMPOUND	0.73		
158	86.12	COMPOUND Mw=220	0.06		
159	86.27	COMPOUND Mw=218	0.17		
160	86.69	KETONIC COMPOUND	0.16		
161	86.81	BERGAMOTOL ISOMER	0.05		
162	87.16	SESQUITERPENIC COMPOUND	0.02		
163	87.26	OXIDE COMPOUND	0.05		
164	87.67	SESQUITERPENIC COMPOUND	0.07		
165	88.23	COMPOUND Mw=218	0.06		
166	88.50	AROMATIC COMPOUND	0.02		
167	89.83	SESQUITERPENIC COMPOUND	0.04		
168	90.07	SESQUITERPENIC COMPOUND	0.04		
169	90.31	SESQUITERPENIC COMPOUND	0.08		
170	90.41	COMPOUND Mw=218	0.02		
171	90.54	AROMATIC COMPOUND	0.05		
172	91.79	OXIDE COMPOUND	0.02		

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Peaks	**RT (min)**	**Compound name**	**%**	**Standard (%)**	**Allergens (%)**
173	92.31	XANTHOXYLIN	0.01		
174	94.74	SESQUITERPENIC COMPOUND	0.03		
175	97.07	SESQUITERPENIC COMPOUND	0.03		
176	97.65	SESQUITERPENIC COMPOUND	0.02		
177	98.75	SESQUITERPENIC COMPOUND	0.04		
178	100.25	SESQUITERPENIC COMPOUND	0.03		
179	101.04	COMPOUND Mw=220	0.18		
180	104.00	OXIDE COMPOUND	0.02		
181	104.13	OXIDE COMPOUND	0.04		
		TOTAL	**99.83**		**42.11**

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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