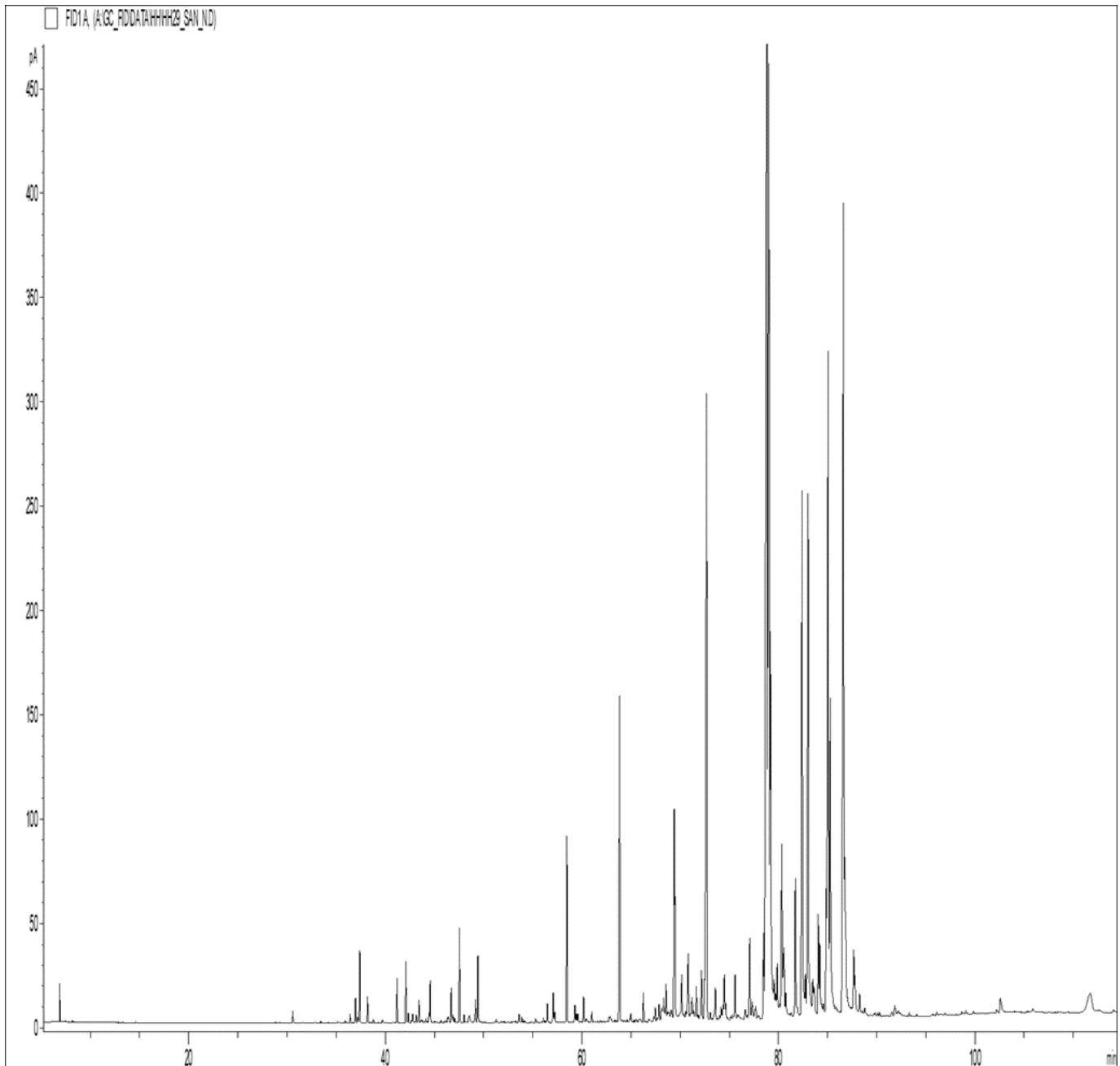


GCMS ANALYSIS

PRODUCT NAME: SANDALWOOD ESSENTIAL OIL (AUSTRALIAN) – 11129

DATE: April 22, 2022



*Due to volume turnover, this report is not lot specific, It is representative of the quality of this oil produced by the manufacturer of this product, Specific lots may vary slightly as is the case in natural products,*

**GCMS ANALYSIS (cont'd,)**
**PRODUCT NAME: SANDALWOOD ESSENTIAL OIL (AUSTRALIAN) – 11129**

<b>Peak</b>	<b>RT (min)</b>	<b>Component name</b>	<b>%</b>
1	6.87	SANTENE	0.11
2	30.58	FURFURAL	0.08
3	35.89	CEDRENE ISOMER	0.02
4	36.42	BERGAMOTENE ISOMER	0.05
5	36.98	alpha-CEDRENE	0.16
6	37.18	alpha-cis-BERGAMOTENE	0.06
7	37.41	alpha-SANTALENE	0.46
8	38.20	alpha-trans-BERGAMOTENE	0.16
9	38.78	beta-CEDRENE	0.02
10	39.71	SANTALENE ISOMER	0.03
11	41.20	epi-beta-SANTALENE	0.29
12	42.10	beta-SANTALENE	0.40
13	42.34	FARNESENE ISOMER	0.06
14	42.65	alpha-ACORADIENE	0.01
15	42.80	E-beta-FARNESENE	0.08
16	43.15	SESQUITERPENE	0.05
17	43.44	CURCUMENE ISOMER	0.16
18	43.64	gamma-SELINENE	0.02
19	43.75	CURCUMENE ISOMER	0.02
20	44.16	CURCUMENE ISOMER	0.03
21	44.45	Z-beta-FARNESENE	0.07
22	44.58	gamma-CURCUMENE	0.26
23	45.00	SESQUITERPENE	0.01
24	45.67	SESQUITERPENE	0.02
25	46.15	AROMATIC COMPOUND	0.02
26	46.35	CURCUMENE ISOMER	0.04
27	46.44	SESQUITERPENE	0.04
28	46.71	beta-BISABOLENE	0.22
29	46.89	SESQUITERPENE	0.08
30	47.06	SESQUITERPENE	0.03

**Disclaimer & Caution**

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. New Directions Aromatics Inc, provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc, no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of New Directions Aromatics Inc, is limited to the value of the goods and does not include any consequential loss. New Directions Aromatics Inc, shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. New Directions Aromatics Inc, shall not be responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario, Canada

**GCMS ANALYSIS (cont'd,)**
**PRODUCT NAME: SANDALWOOD ESSENTIAL OIL (AUSTRALIAN) – 11129**

<b>Peak</b>	<b>RT (min)</b>	<b>Component name</b>	<b>%</b>
31	47.55	beta-CURCUMENE	0.63
32	48.03	SESQUITERPENE	0.05
33	48.22	SESQUITERPENE	0.01
34	48.49	FARNESENE ISOMER	0.03
35	48.57	E,E-alpha-FARNESENE	0.09
36	49.18	beta-SESQUIPELLANDRENE	0.18
37	49.43	alpha-CURCUMENE	0.44
38	51.29	KETONIC COMPOUND	0.03
39	53.15	SESQUITERPENIC EPOXIDE	0.01
40	53.28	COMPOUND Mw=216	0.01
41	53.61	SESQUITERPENE	0.07
42	53.90	AROMATIC COMPOUND	0.04
43	54.16	SESQUITERPENIC EPOXIDE	0.02
44	55.30	8,14-CEDRANOXIDE	0.03
45	56.09	SESQUITERPENOL	0.03
46	56.26	SESQUITERPENIC EPOXIDE	0.02
47	56.50	AROMATIC COMPOUND	0.14
48	57.09	AROMATIC COMPOUND	0.22
49	57.24	CURCUMENE ISOMER	0.08
50	58.48	DENDROLASIN	1.21
51	59.30	SESQUITERPENONE	0.14
52	59.46	SESQUITERPENIC EPOXIDE	0.06
53	59.60	SESQUITERPENIC EPOXIDE	0.07
54	59.86	AROMATIC COMPOUND	0.01
55	60.18	SESQUITERPENONE	0.18
56	60.41	SESQUITERPENIC EPOXIDE	0.03
57	61.03	SESQUITERPENONE	0.08
58	61.32	SESQUITERPENONE	0.02
59	61.89	SESQUITERPENONE	0.02
60	62.79	AROMATIC COMPOUND	0.04

**Disclaimer & Caution**

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. New Directions Aromatics Inc, provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc, no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of New Directions Aromatics Inc, is limited to the value of the goods and does not include any consequential loss. New Directions Aromatics Inc, shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. New Directions Aromatics Inc, shall not be responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario, Canada

**GCMS ANALYSIS (cont'd,)**
**PRODUCT NAME: SANDALWOOD ESSENTIAL OIL (AUSTRALIAN) – 11129**

Peak	RT (min)	Component name	%
61	62.87	SESQUITERPENONE	0.05
62	62.98	SESQUITERPENONE	0.03
63	63.37	SESQUITERPENONE	0.02
64	63.51	SESQUITERPENIC EPOXIDE	0.02
65	63.85	NEROLIDOL	2.29
66	64.05	COMPOUND Mw=238	0.02
67	64.28	SESQUITERPENONE	0.02
68	64.61	SESQUITERPENIC EPOXIDE	0.03
69	64.90	SESQUITERPENONE	0.03
70	65.01	SESQUITERPENOL	0.07
71	65.36	SESQUITERPENIC EPOXIDE	0.02
72	65.54	AROMATIC COMPOUND	0.04
73	65.85	SESQUITERPENOL	0.04
74	65.96	SESQUITERPENOL	0.04
75	66.27	GUAJOL	0.20
76	66.48	SESQUITERPENOL	0.01
77	66.82	SESQUITERPENIC EPOXIDE	0.03
78	66.92	SESQUITERPENOL	0.03
79	67.33	SESQUITERPENONE	0.05
80	67.47	BISABOLOL ISOMER	0.12
81	67.86	SESQUITERPENOL	0.17
82	68.10	SESQUITERPENOL	0.15
83	68.33	BERGAMOTOL ISOMER	0.33
84	68.57	SESQUITERPENOL	0.29
85	68.71	SESQUITERPENIC EPOXIDE	0.08
86	68.81	SESQUITERPENIC EPOXIDE	0.05
87	68.87	SESQUITERPENIC EPOXIDE	0.10
88	69.10	AROMATIC COMPOUND	0.19
89	69.41	epi-beta-BISABOLOL	1.73
90	69.48	beta-BISABOLOL	0.66

**Disclaimer & Caution**

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. New Directions Aromatics Inc, provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc, no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of New Directions Aromatics Inc, is limited to the value of the goods and does not include any consequential loss. New Directions Aromatics Inc, shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. New Directions Aromatics Inc, shall not be responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario, Canada

**GCMS ANALYSIS (cont'd,)**
**PRODUCT NAME: SANDALWOOD ESSENTIAL OIL (AUSTRALIAN) – 11129**

<b>Peak</b>	<b>RT (min)</b>	<b>Component name</b>	<b>%</b>
91	70.16	SESQUITERPENIC EPOXIDE	0.60
92	70.40	SESQUITERPENIC EPOXIDE	0.08
93	70.57	EUDESMOL ISOMER	0.10
94	70.83	alpha-SANTALAL	0.69
95	71.20	SESQUITERPENOL	0.35
96	71.38	SESQUITERPENOL	0.11
97	71.66	SANTALOL ISOMER	0.32
98	71.84	CURCUMENOL ISOMER	0.06
99	72.01	CURCUMENOL ISOMER	0.04
100	72.18	BULNESOL	0.46
101	72.48	alpha-BISABOLOL	0.13
102	72.70	<b>Epi-alpha-BISABOLOL</b>	<b>5.94</b>
103	73.09	alpha-EUDESMOL	0.08
104	73.26	beta-EUDESMOL	0.02
105	73.59	FARNESYL ACETATE	0.34
106	74.02	BISABOLOL ISOMER	0.04
107	74.17	SESQUITERPENOL	0.12
108	74.38	CURCUMENOL ISOMER	0.15
109	74.50	COMPOUND Mw=166	0.37
110	74.64	SESQUITERPENOL	0.14
111	74.86	AROMATIC COMPOUND	0.02
112	75.15	SESQUITERPENOL	0.03
113	75.26	SESQUITERPENOL	0.04
114	75.45	SESQUITERPENIC EPOXIDE	0.05
115	75.59	DIMETHYL METHYLPENTENYL NORBORNANOL	0.36
116	75.89	SANTALOL ISOMER	0.07
117	76.22	SANTALOL ISOMER	0.03
118	76.61	SESQUITERPENOL	0.13
119	77.08	CURCUMENOL ISOMER	0.77
120	77.33	CURCUMENOL ISOMER	0.23

**Disclaimer & Caution**

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. New Directions Aromatics Inc. provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of New Directions Aromatics Inc. is limited to the value of the goods and does not include any consequential loss. New Directions Aromatics Inc. shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. New Directions Aromatics Inc. shall not be responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario, Canada

GCMS ANALYSIS (cont'd,)

PRODUCT NAME: SANDALWOOD ESSENTIAL OIL (AUSTRALIAN) – 11129

Peak	RT (min)	Component name	%
121	77.70	CURCUMENOL ISOMER	0.21
122	77.95	SESQUITERPENOL	0.06
123	78.49	SESQUITERPENIC EPOXIDE	0.63
124	78.82	<b>Z-alpha-SANTALOL</b>	<b>15.15</b>
125	79.04	<b>FARNESOL</b>	<b>10.52</b>
126	79.19	<b>Z-alpha-trans-BERGAMOTOL</b>	<b>3.58</b>
127	79.29	BERGAMOTOL ISOMER	0.13
128	79.56	SESQUITERPENIC EPOXIDE	0.10
129	79.71	SESQUITERPENIC EPOXIDE	0.05
130	79.88	SESQUITERPENIC EPOXIDE	0.28
131	80.12	SESQUITERPENIC EPOXIDE	0.03
132	80.35	<b>SESQUITERPENIC EPOXIDE</b>	<b>2.63</b>
133	80.57	BERGAMOTOL ISOMER	0.44
134	80.76	SESQUITERPENIC EPOXIDE	0.10
135	81.73	<b>epi-beta-SANTALOL</b>	<b>1.37</b>
136	82.41	<b>Z-beta-SANTALOL</b>	<b>5.11</b>
137	82.75	SANTALOL ISOMER	0.46
138	83.03	<b>BERGAMOTOL ISOMER</b>	<b>5.31</b>
139	83.50	SESQUITERPENIC EPOXIDE	0.37
140	83.61	SANTALOL ISOMER	0.50
141	84.06	Z-gamma-CURCUMENE-12-OL	0.85
142	84.21	SANTALOL ISOMER	0.84
143	84.58	BERGAMOTOL ISOMER	0.17
144	84.86	SANTALOL ISOMER	1.04
145	85.05	<b>E-beta-CURCUMENE-12-OL</b>	<b>6.11</b>
146	85.27	<b>LANCEOL</b>	<b>4.01</b>
147	86.62	<b>NUCIFEROL</b>	<b>10.02</b>
148	86.74	BERGAMOTOL ISOMER	0.36
149	86.84	DITERPENE	0.26
150	87.67	SESQUITERPENIC EPOXIDE	0.67

**Disclaimer & Caution**

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources, New Directions Aromatics Inc, provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy, Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose, The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties, As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc, no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained, The liability of New Directions Aromatics Inc, is limited to the value of the goods and does not include any consequential loss, New Directions Aromatics Inc, shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon, New Directions Aromatics Inc, shall not be responsible for any damages resulting from use of or reliance upon this information, In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario, Canada



**GCMS ANALYSIS (cont'd,)**
**PRODUCT NAME: SANDALWOOD ESSENTIAL OIL (AUSTRALIAN) – 11129**

<b>Peak</b>	<b>RT (min)</b>	<b>Component name</b>	<b>%</b>
151	87.79	SESQUITERPENIC EPOXIDE	0.53
152	88.27	SESQUITERPENONE	0.32
153	88.56	ALIPHATIC ESTER	0.11
154	88.78	CURCUMENOL ISOMER	0.19
155	89.39	SESQUITERPENIC EPOXIDE	0.07
156	89.74	SESQUITERPENIC EPOXIDE	0.03
157	89.83	SESQUITERPENIC EPOXIDE	0.06
158	90.28	SESQUITERPENONE	0.07
159	91.08	SESQUITERPENIC EPOXIDE	0.03
160	91.47	SESQUITERPENIC EPOXIDE	0.02
161	91.56	AROMATIC COMPOUND	0.06
162	91.84	ALIPHATIC ESTER	0.11
163	92.21	SESQUITERPENIC EPOXIDE	0.07
164	92.35	SESQUITERPENIC EPOXIDE	0.09
165	92.87	AROMATIC COMPOUND	0.02
166	93.31	SESQUITERPENIC EPOXIDE	0.04
167	94.07	AROMATIC COMPOUND	0.02
168	95.70	AROMATIC COMPOUND	0.03
169	96.11	AROMATIC COMPOUND	0.06
170	96.51	SESQUITERPENIC EPOXIDE	0.05
171	98.68	AROMATIC COMPOUND	0.03
172	99.08	AROMATIC COMPOUND	0.04
173	99.86	SESQUITERPENIC EPOXIDE	0.03
174	102.21	SESQUITERPENIC EPOXIDE	0.03
175	102.59	SESQUITERPENIC EPOXIDE	0.24
176	105.89	SESQUITERPENIC EPOXIDE	0.06
		<b>TOTAL</b>	<b>99.51</b>

**Disclaimer & Caution**

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. New Directions Aromatics Inc, provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of New Directions Aromatics Inc, is limited to the value of the goods and does not include any consequential loss. New Directions Aromatics Inc, shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. New Directions Aromatics Inc, shall not be responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario, Canada