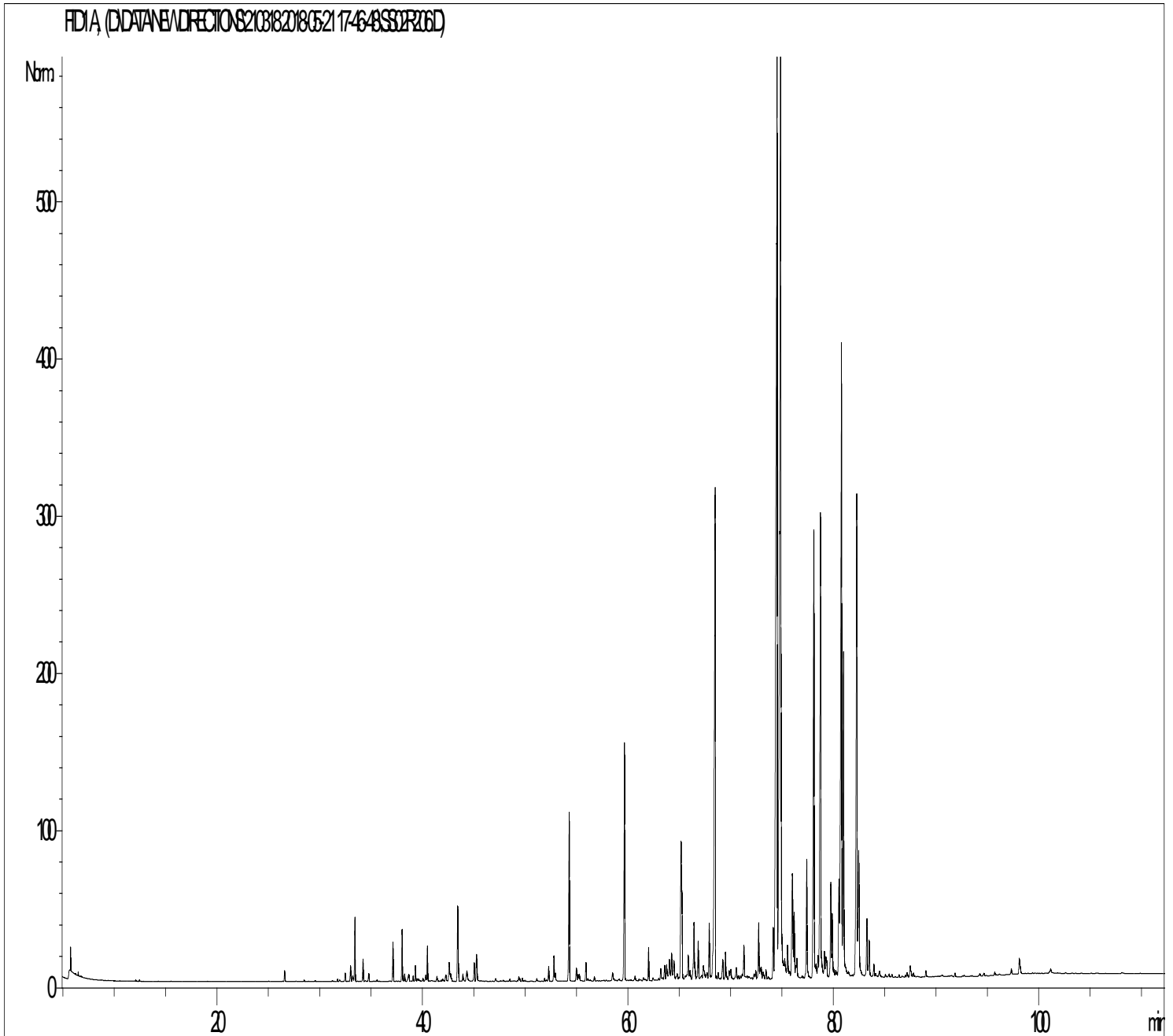




GCMS ANALYSIS

PRODUCT NAME: SANDALWOOD (AUSTRALIA) ESSENTIAL OIL - 11129

DATE: May 30, 2018



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 (AUSTRALIA) ESSENTIAL OIL - 11129

Peak	RT (min)	Component name	%
1	5,7	SANTENE	0,08
2	6,5	alpha-PINENE	0,02
3	12,1	LIMONENE	0,01
4	12,4	1,8-CINEOLE	0,01
5	26,6	FURFURALDEHYDE	0,08
6	31,7	CEDRENE ISOMER	0,02
7	32,5	alpha-ZINGIBERENE	0,07
8	33,0	alpha-CEDRENE	0,14
9	33,2	alpha,cis-BERGAMOTENE	0,06
10	33,4	alpha-SANTALENE	0,54
11	34,2	alpha-trans-BERGAMOTENE	0,18
12	34,8	gamma-MUUROLENE	0,07
13	35,6	SESQUITERPENE	0,02
14	37,1	Épi-beta-SANTALENE	0,33
15	38,0	beta-SANTALENE	0,46
16	38,2	FARNESENE ISOMER	0,07
17	38,6	SESQUITERPENE	0,11
18	39,1	E-beta-FARNESENE	0,05
19	39,3	CURCUMENE ISOMER	0,14
20	39,5	gamma-SELINENE	0,05
21	40,0	Z-beta-FARNESENE	0,03
22	40,3	SESQUITERPENE	0,06
23	40,5	gamma-CURCUMENE	0,30
24	41,4	SESQUITERPENE	0,05
25	42,3	alpha-SELINENE	0,08
26	42,6	beta-BISABOLENE	0,23
27	42,7	SESQUITERPENE	0,09
28	43,4	beta-CURCUMENE	0,79
29	43,9	FARNESENE ISOMER	0,07
30	44,3	SESQUITERPENE	0,17

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.

GCMS ANALYSIS (cont'd.)

PRODUCT NAME: SANDALWOOD (AUSTRALIA) ESSENTIAL OIL - 11129

Peak	RT (min)	Component name	%
31	45,0	beta-SESQUIPELLANDRENE	0,17
32	45,2	alpha-CURCUMENE	0,20
33	45,3	alpha-BISABOLENE	0,10
34	47,1	CEDRANOXIDE ISOMER	0,03
35	48,5	CEDRANOXIDE ISOMER	0,02
36	49,4	CEDRANOXIDE ISOMER	0,05
37	49,5	COMPOUND Mw=220	0,02
38	49,7	E-GERANYL ACETONE	0,03
39	51,1	OXYGENED SESQUITERPENE Mw=220	0,03
40	51,9	ALIPHATIC ESTER	0,03
41	52,1	ALIPHATIC ESTER	0,02
42	52,3	AROMATIC COMPOUND	0,15
43	52,8	TETRAMETHYLBENZENE ISOMER	0,24
44	52,9	DIMETHYLETHYLBENZENE ISOMER	0,08
45	54,3	DENDROLASIN	1,62
46	55,0	AROMATIC COMPOUND Mw=218	0,13
47	55,2	DEHYDROCURCUMENE ISOMER	0,06
48	55,3	AROMATIC COMPOUND Mw=218	0,07
49	55,9	SESQUITERPENONE	0,17
50	56,7	AROMATIC COMPOUND Mw=218	0,04
51	58,5	SESQUITERPENIC EPOXIDE	0,12
52	59,1	SESQUITERPENIC EPOXIDE	0,04
53	59,7	NEROLIDOL	2,22
54	60,7	SESQUITERPENIC EPOXIDE	0,07
55	61,5	ALIPHATIC ESTER	0,03
56	62,0	GUAIOL	0,29
57	62,4	SESQUITERPENIC EPOXIDE	0,04
58	63,0	SESQUITERPENOL	0,02
59	63,2	SESQUITERPENIC EPOXIDE	0,11
60	63,4	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.

GCMS ANALYSIS (cont'd.)

PRODUCT NAME: SANDALWOOD (AUSTRALIA) ESSENTIAL OIL - 11129

Peak	RT (min)	Component name	%
61	63,6	AROMATIC COMPOUND	0,16
62	63,8	SESQUITERPENIC EPOXIDE	0,20
63	64,0	SESQUITERPENIC EPOXIDE	0,30
64	64,2	SESQUITERPENIC EPOXIDE	0,27
65	64,5	SESQUITERPENOL	0,27
66	64,8	SESQUITERPENOL	0,11
67	65,1	Epi-beta-BISABOLOL	1,55
68	65,3	beta-BISABOLOL	0,57
69	65,5	TERPENIC KETONE	0,07
70	65,8	alpha-SANTALAL	0,33
71	66,0	SANTALOL ISOMER	0,14
72	66,4	SANTALOL ISOMER	0,71
73	66,5	SESQUITERPENIC EPOXIDE	0,08
74	66,8	BERGAMOTOL ISOMER	0,43
75	67,2	SESQUITERPENIC EPOXIDE	0,09
76	67,3	SANTALOL ISOMER	0,26
77	67,7	SESQUITERPENOL	0,12
78	67,9	BULNESOL	0,59
79	68,3	alpha-BISABOLOL	0,35
80	68,3	Epi-alpha-BISABOLOL	6,22
81	68,8	beta-EUDESOL	0,08
82	69,2	SESQUITERPENIC EPOXIDE	0,27
83	69,5	SANTALOL ISOMER	0,30
84	69,8	SESQUITERPENOL	0,10
85	70,0	EUDESMA-7-EN-4-OL	0,16
86	70,5	FARNESYL ACETATE	0,19
87	71,1	SESQUITERPENOL	0,08
88	71,3	SANTALOL ISOMER	0,34
89	72,2	BERGAMOTOL ISOMER	0,08
90	72,4	BERGAMOTOL ISOMER	0,10

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.

GCMS ANALYSIS (cont'd.)

PRODUCT NAME: SANDALWOOD (AUSTRALIA) ESSENTIAL OIL - 11129

Peak	RT (min)	Component name	%
91	72,7	CURCUMENOL ISOMER	0,60
92	72,9	SESQUITERPENOL	0,11
93	73,0	SESQUITERPENIC EPOXIDE	0,13
94	73,2	CURCUMENOL ISOMER	0,11
95	73,4	SANTALOL ISOMER	0,10
96	74,1	BERGAMOTOL ISOMER	0,54
97	74,5	Z-alpha-SANTALOL	15,20
98	74,8	E,E-FARNESOL	13,56
99	74,9	Z-alpha,trans-BERGAMOTOL	2,61
100	75,2	BERGAMOTOL ISOMER	0,40
101	75,5	SANTALOL ISOMER	0,41
102	76,0	SESQUITERPENOL Mw=220	1,67
103	76,2	CEDRENOL ISOMER	0,67
104	76,4	BERGAMOTOL ISOMER	0,35
105	77,4	Epi-beta-SANTALOL	1,33
106	78,1	Z-beta-SANTALOL	5,32
107	78,3	SANTALOL ISOMER	0,25
108	78,5	SESQUITERPENIC ACETATE	0,25
109	78,7	Z-gamma-CURCUMENE-12-OL	5,78
110	79,1	SESQUITERPENOL	0,33
111	79,3	CURCUMENOL ISOMER	0,40
112	79,7	SANTALOL ISOMER Mw=220	1,04
113	79,9	SANTALYL ACETATE ISOMER	0,67
114	80,5	SANTALOL ISOMER	1,17
115	80,7	E-beta-CURCUMENE-12-OL	8,08
116	81,0	LANCEOL	3,35
117	81,2	CURCUMENOL ISOMER	0,18
118	81,4	BERGAMOTOL ISOMER	0,14
119	82,3	NUCIFEROL Mw=218	5,93
120	82,5	COMPONENT Mw=218	1,87

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.

GCMS ANALYSIS (cont'd.)

PRODUCT NAME: SANDALWOOD (AUSTRALIA) ESSENTIAL OIL - 11129

Peak	RT (min)	Component name	%
121	83,3	COMPONENT Mw=218	0,74
122	83,5	SANTALOL ISOMER	0,47
123	83,9	COMPONENT Mw=218	0,18
124	84,5	COMPONENT Mw=218	0,12
125	87,5	AROMATIC COMPOUND	0,16
126	87,8	AROMATIC COMPOUND	0,05
127	89,0	SESQUITERPENOL	0,06
128	97,3	PALMITIC ACID	0,05
129	98,1	AROMATIC COMPOUND	0,23
130	101,1	AROMATIC COMPOUND	0,07
		TOTAL	99,82

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.