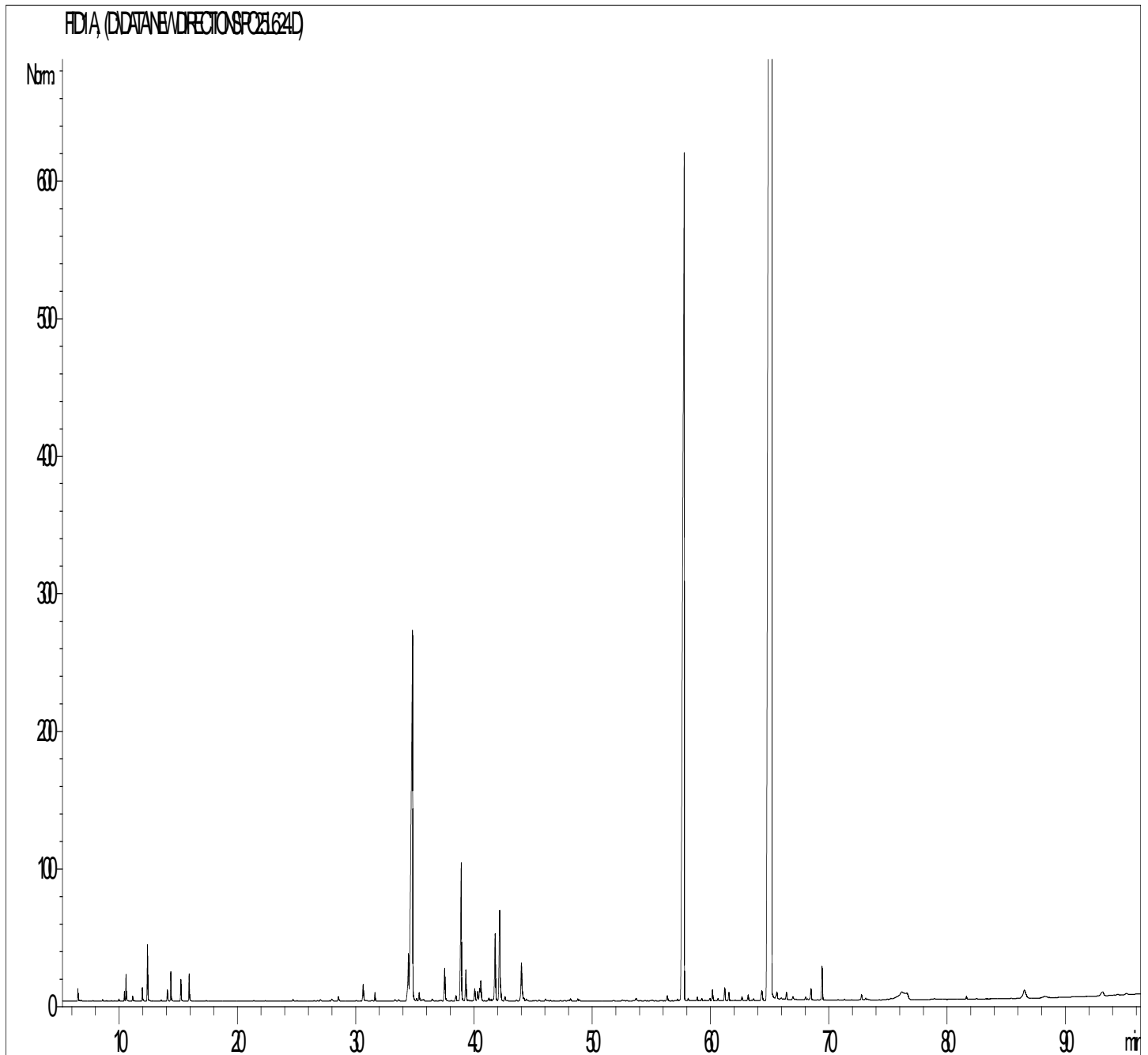




GCMS ANALYSIS

PRODUCT NAME: ALLSPICE ESSENTIAL OIL - 11304

DATE: June 30, 2017



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: ALLSPICE ESSENTIAL OIL - 11304

Peak	RT (min)	Compound name	%
1	6,5	α -PINENE	0,04
2	6,6	α -THUYENE	0,03
3	6,8	TOLUENE	0,01
4	8,6	β -PINENE	0,01
5	9,9	Δ 3-CARENE	0,01
6	10,4	β -MYRCENE	0,04
7	10,5	α -PHELLANDRENE	0,14
8	11,1	α -TERPINENE	0,03
9	11,9	LIMONENE	0,08
10	12,4	1,8 -CINEOLE	0,33
11	13,5	Cis- β -OCIMENE	0,01
12	14,1	γ -TERPINENE	0,07
13	14,4	Trans- β -OCIMENE	0,17
14	15,2	p-CYMENE	0,13
15	15,9	TERPINOLENE	0,17
16	24,7	α ,p-DIMETHYLSTYRENE	0,01
17	27,0	α -CUBEBENE	0,02
18	27,9	YLANGENE + CYCLOSATIVENE	0,03
19	28,5	α -COPAENE	0,04
20	30,6	α -GURJUNENE	0,16
21	31,6	LINALOOL	0,06
22	33,3	ϵ -CADINENE	0,02
23	33,6	SESQUITERPENE	0,02
24	34,3	SESQUITERPENE	0,09
25	34,4	β -ELEMENE	0,38
26	34,8	β-CARYOPHYLLENE	5,62
27	35,1	SESQUITERPENE	0,02
28	35,3	AROMADENDRENE	0,07
29	35,6	SESQUITERPENE	0,01

Disclaimer & Caution

Prior to use, please refer to all relevant technical information specific to the product. 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 product, 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 the use of or reliance upon this information.

GCMS ANALYSIS (cont'd.)
PRODUCT NAME: ALLSPICE ESSENTIAL OIL - 11304

Peak	RT (min)	Compound name	%
30	35,7	SESQUITERPENE	0,02
31	36,5	GURJUNENE ISOMER	0,02
32	37,2	CLOVENE	0,01
33	37,5	ALLO-AROMADENDRENE	0,32
34	38,5	ZONARENE + ESTRAGOL	0,05
35	38,9	α -HUMULENE	1,33
36	39,3	γ -SELINENE	0,28
37	40,0	γ -MUUROLENE	0,12
38	40,3	SESQUITERPENE	0,10
39	40,4	α -TERPINEOL	0,09
40	40,5	LEDENE	0,20
41	41,2	GERMACRENE D	0,03
42	41,4	SESQUITERPENE	0,02
43	41,6	SESQUITERPENE	0,02
44	41,7	β -SELINENE	0,66
45	42,1	α -SELINENE	0,83
46	42,2	α -MUUROLENE	0,09
47	42,6	BICYCLOGERMACRENE	0,04
48	43,5	SESQUITERPENE	0,01
49	44,0	δ -CADINENE	0,35
50	44,1	γ -CADINENE	0,08
51	44,2	α -PANASINSEN	0,03
52	44,4	METHYL SALICYLATE	0,02
53	45,4	CADINA-1,4-DIENE	0,01
54	46,0	α -AMORPHENE	0,02
55	48,0	SESQUITERPENE Mw=202	0,01
56	48,1	CALAMENENE	0,02
57	48,7	p-CYMENE-8-OL	0,01
58	48,9	GERANIOL	0,01
59	52,5	α -CALACORENE	0,02

Disclaimer & Caution

Prior to use, please refer to all relevant technical information specific to the product. 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 product, 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 the use of or reliance upon this information.

GCMS ANALYSIS (cont'd.)
PRODUCT NAME: ALLSPICE ESSENTIAL OIL - 11304

Peak	RT (min)	Compound name	%
60	53,6	PALUSTROL	0,03
61	55,0	SESQUITERPENIC EPOXIDE	0,01
62	56,3	CARYOPHYLLENE EPOXIDE	0,06
63	57,2	SESQUITERPENOL	0,02
64	57,7	METHYLEUGENOL	13,33
65	58,1	SESQUITERPENOL	0,02
66	58,8	LEDOL	0,03
67	59,2	EPOXY-6,7-HUMULENE	0,02
68	59,9	CARYOPHYLLENOL	0,02
69	60,1	Épi-CUBENOL	0,10
70	60,6	CUBENOL	0,02
71	61,1	GLOBULOL	0,11
72	61,5	VIRIDIFLOROL	0,07
73	62,6	10-épi-γ-EUDESOL	0,04
74	63,1	ROSIFOLIOL	0,05
75	63,6	SPATHULENOL	0,02
76	64,3	EUDESMA-7-EN-4-OL	0,12
77	65,1	EUGENOL	71,00
78	65,6	T-CADINOL	0,13
79	66,4	SESQUITERPENOL	0,08
80	66,9	CADINOL ISOMER	0,04
81	68,0	ELIMICINE	0,03
82	68,1	SESQUITERPENOL	0,01
83	68,5	SESQUITERPENOL	0,10
84	69,4	EUDESMA-7(11)-EN-4-OL	0,27
85	70,7	SESQUITERPENIC EPOXIDE	0,01
86	71,3	CARYOPHYLLA-3,7-DIEN-6-OL	0,01
87	72,7	CHAVICOL	0,06
88	73,1	SESQUITERPENIC EPOXIDE	0,02
89	73,3	ISOEUGENOL	0,01

Disclaimer & Caution

Prior to use, please refer to all relevant technical information specific to the product. 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 product, 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 the use of or reliance upon this information.

GCMS ANALYSIS (cont'd.)

PRODUCT NAME: ALLSPICE ESSENTIAL OIL - 11304

Peak	RT (min)	Compound name	%
90	76,1	ALIPHATIC ESTER	0,44
91	76,6	ALIPHATIC ESTER	0,27
92	81,6	EUGENOL METHOXY	0,02
93	86,5	ALIPHATIC ESTER	0,24
94	88,3	ALIPHATIC ESTER	0,04
95	93,1	ALIPHATIC ESTER	0,11
96	95,1	PALMITIC ACID	0,04
		TOTAL	99,94

Disclaimer & Caution

Prior to use, please refer to all relevant technical information specific to the product. 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 product, 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 the use of or reliance upon this information.