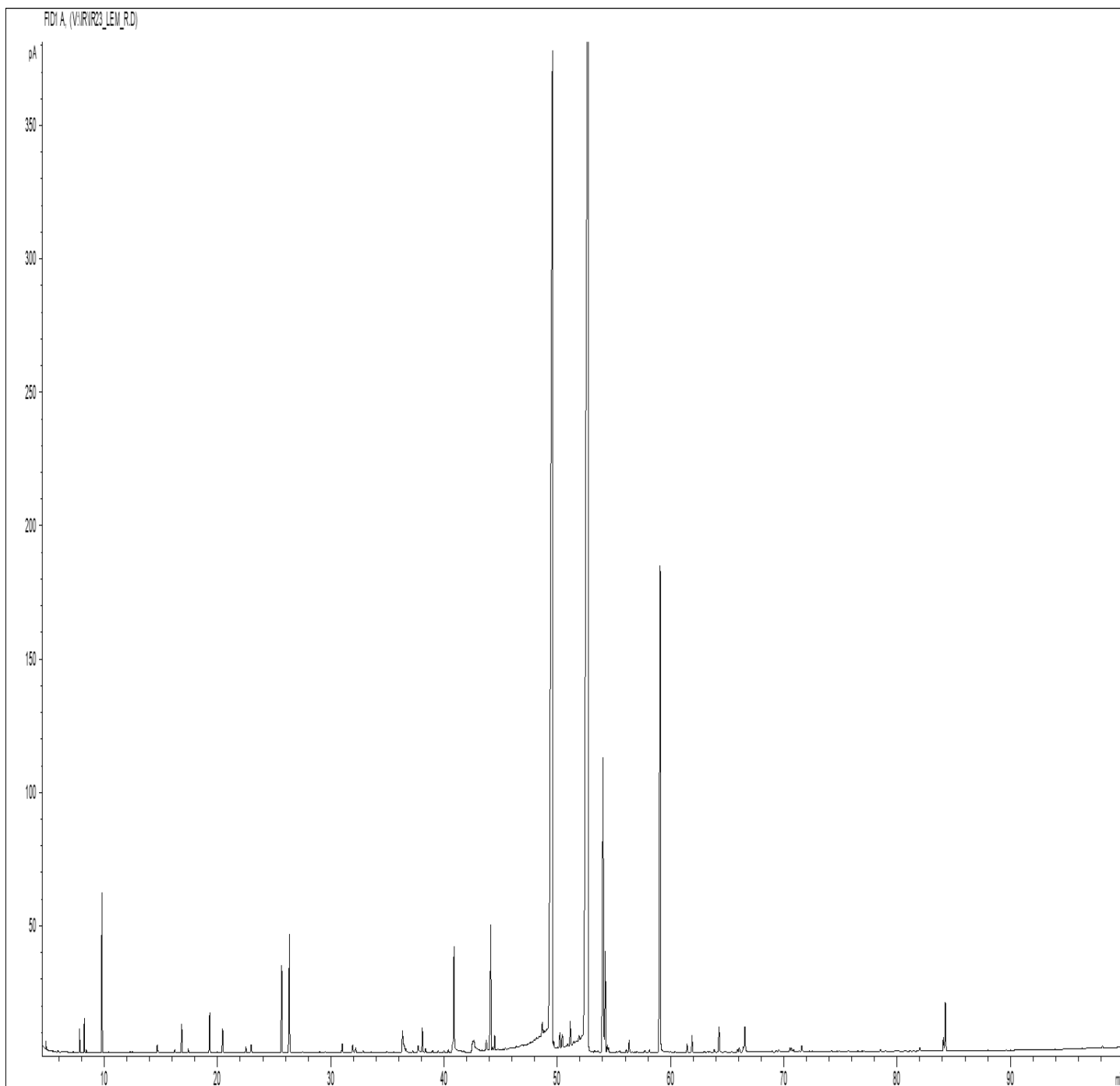


GCMS ANALYSIS

PRODUCT NAME: LEMONGRASS ESSENTIAL OIL – 11080

DATE: January 2, 2024



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: LEMONGRASS ESSENTIAL OIL – 11080

Peak	RT (min)	Compound name	%
1	7,83	TRICYCLEN	0,14
2	8,24	alpha-PINENE	0,22
3	8,41	PRENOL	0,02
4	9,80	CAMPHE	1,21
5	12,45	4-HEPTANONE	0,02
6	14,67	beta-MYRCENE	0,07
7	16,20	1,8-CINEOLE, 2,3-DEHYDRO-	0,02
8	16,82	LIMONENE	0,27
9	17,40	1,8-CINEOLE	0,04
10		beta-PHELLANDRENE	
11	19,29	cis-beta-OCIMENE	0,38
12	20,43	trans-beta-OCIMENE	0,23
13	22,49	TERPINOLENE	0,05
14	22,96	OCTANAL	0,09
15	25,65	4-NONANONE	0,89
16	26,32	5-HEPTEN-2-ONE, 6-METHYL-	1,22
17	27,49	5-HEPTENAL, 2,6-DIMETHYL-	0,01
18	29,00	ALLO-OCIMENE	0,01
19	29,49	TERPENIC ALCOHOL	0,01
20	30,99	ROSEFURAN	0,09
21	31,92	SESQUITERPENE	0,11
22	32,19	PERILLENE	0,06
23	34,95	alpha-CUBEBENE	0,02
24	35,18	delta-ELEMENE	0,01
25	35,53	LINALOOL trans-OXIDE	0,01
26	36,34	CITRONELLAL	0,49
27		ISOGERANIAL	
28		ISOLEDENE	
29	36,50	YLANGENE	0,03
30	36,64	3-NONANOL	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: LEMONGRASS ESSENTIAL OIL – 11080

Peak	RT (min)	Compound name	%
31	37,25	alpha-COPAENE	0,02
32	37,71	DECANAL	0,11
33	38,09	EXO-ISOCITRAL	0,29
34	38,37	CAMPHOR	0,05
35	38,99	beta-BOURBONENE	0,03
36	39,47	SATIVENE	0,02
37	40,00	4-UNDECANONE	0,03
38	40,37	beta1-CUBEBENE	0,04
39	40,89	Z-ISOCITRAL	1,55
40		LINALOOL	
41	42,64	E-ISOCITRAL	0,50
42		epsilon-CADINENE	
43	43,74	beta-ELEMENE	0,15
44	44,12	beta-CARYOPHYLLENE	1,63
45	44,30	TERPINENE-4-OL	0,04
46	44,46	ROSEFURAN OXIDE	0,16
47	44,77	6,9-GUAIADIENE	0,01
48	45,40	SESQUITERPENE	0,02
49	46,36	CADINA-3,5-DIENE	0,02
50	46,84	GERMACRENE A	0,02
51	47,88	COMPOUND Mw=152	0,02
52	47,99	COMPOUND Mw=152	0,02
53	48,17	ZONARENE	0,03
54	48,42	TERPENIC COMPOUND	0,02
55	48,68	alpha-HUMULENE	0,17
56	48,86	cis-4,5-MUROLADIENE	0,03
57	49,58	NERAL	32,97
58	49,69	TERPENIC ALCOHOL	0,05
59	50,06	SESQUITERPENE	0,01
60	50,23	alpha-TERPINEOL	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, Canada

GCMS ANALYSIS (cont'd,)

PRODUCT NAME: LEMONGRASS ESSENTIAL OIL – 11080

Peak	RT (min)	Compound name	%
61	50,43	BORNEOL	0,19
62	50,77	SESQUITERPENE	0,01
63	50,90	TERPENIC OXIDE	0,04
64	51,15	GERMACRENE D	0,27
65	51,45	MUROLADIENE ISOMER	0,03
66	51,69	SESQUITERPENE	0,02
67	51,92	PIPERITONE	0,04
68	52,19	alpha-MUROLENE	0,01
69	52,72	GERANIAL	41,16
70	53,28	cis-ISOPIPERITENOL	0,02
71	53,55	trans-ISOPIPERITENOL	0,02
72	54,05	GERANYL ACETATE	3,71
73	54,10	delta-CADINENE	0,19
74	54,24	gamma-CADINENE	1,14
75	54,41	CITRONELLOL	0,09
76	54,52	SESQUITERPENE	0,05
77	55,42	SESQUITERPENE	0,01
78	55,53	CADINA-1,4-DIENE	0,02
79	56,10	alpha-AMORPHENE	0,04
80	56,34	NEROL	0,14
81	57,05	trans-ISOGERANIOL	0,01
82	57,74	CUPARENE	0,02
83	58,13	GERMACRENE B	0,03
84	59,08	GERANIOL	6,37
85	61,46	Epi-CUBEBOL	0,09
86	61,90	GERANYL BUTYRATE	0,18
87	63,86	ISOPHYTYL ACETATE	0,03
88	64,28	CUBEBOL	0,29
89	65,91	SESQUITERPENOL	0,03
90	66,07	ISOCARYOPHYLLENE OXIDE	0,06

GCMS ANALYSIS (cont'd,)

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

PRODUCT NAME: LEMONGRASS ESSENTIAL OIL – 11080

Peak	RT (min)	Compound name	%
91	66,43	TERPENIC OXIDE	0,06
92	66,56	CARYOPHYLLENE OXIDE	0,32
93	68,95	AROMATIC COMPOUND	0,02
94	69,33	TERPENIC COMPOUND	0,02
95	69,53	EPOXY-6,7-HUMULENE	0,03
96	69,57	KETONIC COMPOUND	0,02
97	70,53	Epi-CUBENOL	0,05
98	70,65	CAPRYLIC ACID	0,06
99	70,86	KETONIC COMPOUND	0,04
100	71,35	COPAENOL ISOMER	0,02
101	71,58	GUAJOL	0,09
102	72,49	GERANYL CAPROATE	0,01
103	74,21	PENTADECANONE, TRIMETHYL-	0,02
104	74,90	EUGENOL	0,01
105	75,70	gamma-EUDESOL	0,02
106	76,92	TERPENIC OXIDE	0,01
107	77,09	COMPOUND Mw=150	0,01
108	78,53	TERPENIC COMPOUND	0,03
109	79,98	PHENOLIC COMPOUND	0,02
110	81,15	ACID COMPOUND	0,02
111	82,01	NERIC ACID	0,06
112	84,09	GERANIC ACID	0,16
113	84,26	ISOEUGENOL	0,62
114	98,13	AROMATIC COMPOUND	0,03
		TOTAL	99,97

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