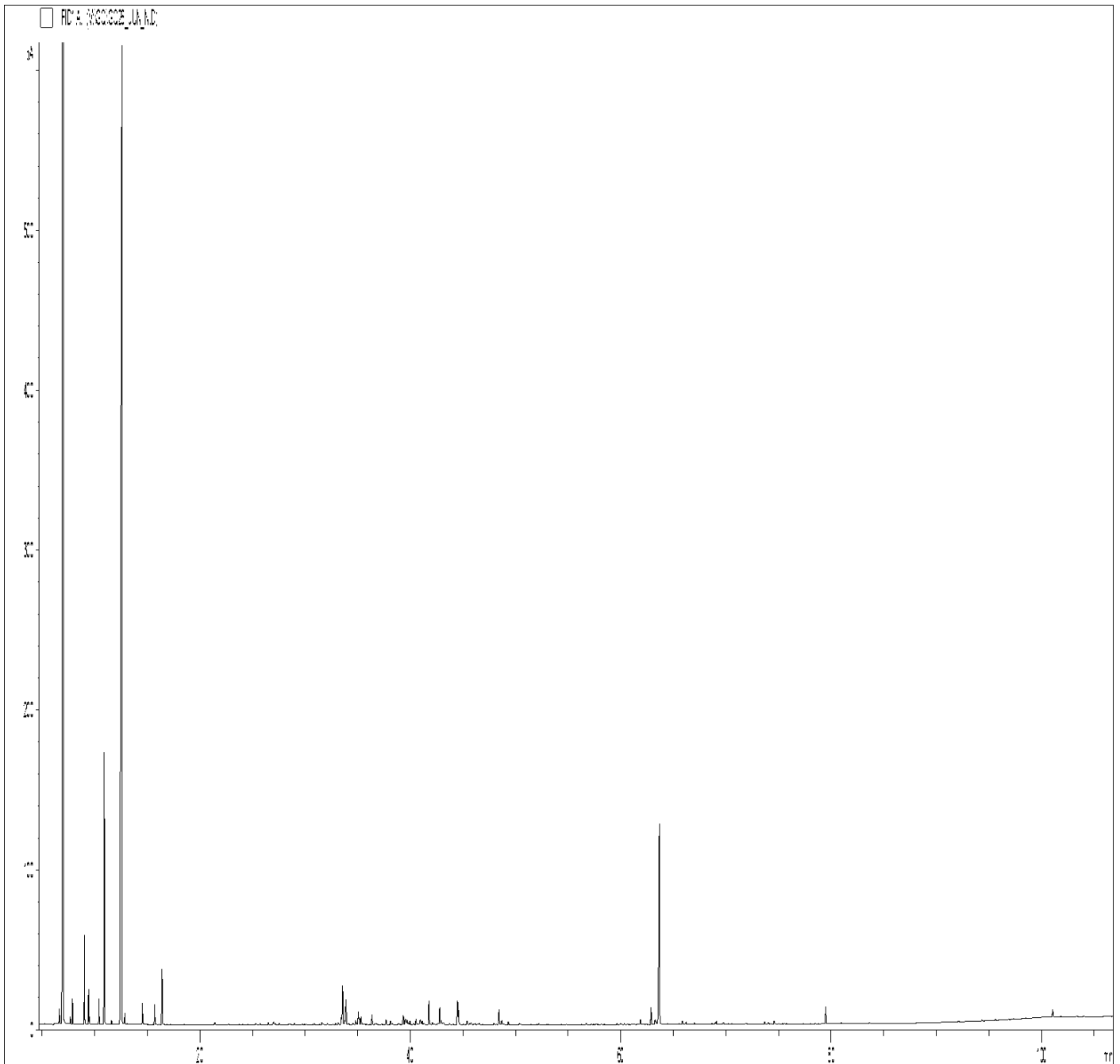


GCMS ANALYSIS

PRODUCT NAME: JUNIPER BERRY ESSENTIAL OIL (INDIA) - 11072

DATE: March 8, 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: JUNIPER BERRY ESSENTIAL OIL (INDIA) - 11072

Peak	RT (min)	Compound name	%
1	6,64	TRICYCLENENE	0,16
2	7,01	alpha-PINENE	54,56
3	6,75	alpha-THUYENE	0,30
4	7,67	alpha-FENCHENE	0,06
5	7,88	CAMPHENE	0,22
6	9,02	beta-PINENE	0,89
7	9,42	SABINENE	0,35
8	9,50	PINADIENE	0,07
9	10,41	delta3-CARENE	0,29
10	10,91	beta-MYRCENE	3,03
11	11,02	alpha-PHELLANDRENE	0,03
12	11,59	alpha-TERPINENE	0,05
13	12,57	LIMONENE	25,05
14	12,85	beta-PHELLANDRENE	0,14
15	13,09	1,3,8-p-MENTHATRIENE	0,02
16	14,54	gamma-TERPINENE	0,27
17	14,60	trans-beta-OCIMENE	0,02
18	15,69	p-CYMENE	0,26
19	16,39	TERPINOLENE	0,72
20	21,43	alpha-PINENE EPOXIDE	0,04
21	25,30	alpha,p-DIMETHYLSTYRENE	0,03
22	25,72	LIMONENE cis-1,2-EPOXIDE	0,02
23	26,51	LIMONENE trans-1,2-EPOXIDE	0,05
24	26,98	alpha-CUBEBENE	0,03
25	27,02	4,8-TERPINOLENE EPOXIDE	0,05
26	27,17	FENCHYL ACETATE	0,03
27	27,56	delta-ELEMENE	0,03
28	28,46	alpha-CAMPHOLENAL	0,05
29	29,01	alpha-COPAENE	0,03
30	29,73	CAMPHOR	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: JUNIPER BERRY ESSENTIAL OIL (INDIA) - 11072

Peak	RT (min)	Compound name	%
31	29,93	beta-PINOCAMPHONE	0,02
32	30,12	COMPOUND Mw=152	0,01
33	30,71	alpha-GURJUNENE	0,02
34	30,89	TERPENIC COMPOUND	0,03
35	31,62	BERGAMOTENE ISOMER	0,05
36	31,77	beta1-CUBEBENE	0,02
37	32,12	cis-THUYANOL	0,04
38	32,63	LIMONENE cis-8,9-EPOXIDE	0,02
39	32,91	alpha-cis-BERGAMOTENE	0,05
40	33,15	METHYL CITRONELLATE	0,05
41	33,46	alpha-CEDRENE	0,16
42	33,58	CEDRENE ISOMER	0,68
43	33,78	epsilon-CADINENE	0,09
44	33,90	BORNYL ACETATE	0,43
45	34,08	FENCHOL	0,02
46	34,19	ISOBORNYL ACETATE	0,03
47	34,55	alpha-trans-BERGAMOTENE	0,04
48	34,81	beta-ELEMENE	0,08
49	34,93	beta-CUBEBENE	0,02
50	35,06	beta-CARYOPHYLLENE	0,24
51	35,16	beta-CEDRENE	0,12
52	35,33	TERPINENE-4-OL	0,16
53	35,47	2-UNDECANONE	0,01
54	35,59	HOTRIENOL	0,02
55	35,86	AROMADENDRENE	0,03
56	36,37	THUYOPSENE	0,18
57	36,61	cis-p-2,8-MENTHADIEN-1-OL	0,04
58	36,80	CADINADIENE ISOMERE	0,03
59	37,27	CADINA-3,5-DIENE	0,02
60	37,70	GERMACRENE A	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, Canada

GCMS ANALYSIS (cont'd.)

PRODUCT NAME: JUNIPER BERRY ESSENTIAL OIL (INDIA) – 11072

Peak	RT (min)	Compound name	%
61	38,14	trans-PINOCARVEOL	0,08
62	38,28	cis-VERBENOL	0,02
63	38,81	SESQUITERPENE	0,02
64	38,90	trans-p-2,8-MENTHADIEN-1-OL	0,02
65	39,03	ZONARENE	0,02
66	39,34	alpha-HUMULENE	0,20
67	39,52	E-beta-FARNESENE	0,14
68	39,69	trans-VERBENOL	0,10
69	39,82	cis-4,5-MUUROLADIENE	0,05
70	39,98	CURCUMENE ISOMER	0,08
71	40,28	LAVANDULAL	0,04
72	40,54	gamma-MUUROLENE	0,11
73	40,78	TERPENYL ACETATE	0,02
74	40,94	SESQUITERPENE	0,15
75	41,12	alpha-TERPINEOL	0,08
76	41,29	TERPENIC ESTER	0,05
77	41,76	GERMACRENE D	0,44
78	41,86	SESQUITERPENE	0,01
79	42,09	MUUROLADIENE ISOMER	0,05
80	42,26	EREMOPHILENE	0,02
81	42,60	alpha-SELINENE	0,04
82	42,79	TERPENIC ESTER	0,35
83	42,94	beta-BISABOLENE	0,08
84	43,07	BICYCLOGERMACRENE	0,03
85	43,15	beta-HIMACHALENE	0,05
86	43,69	beta-CURCUMENE	0,03
87	44,03	trans-ISOPIPERITENOL	0,02
88	44,48	delta-CADINENE	0,41
89	44,58	gamma-CADINENE	0,25
90	45,06	delta-SELINENE	0,02

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: JUNIPER BERRY ESSENTIAL OIL (INDIA) – 11072

Peak	RT (min)	Compound name	%
91	45,38	beta-SESQUIPHELLANDRENE	0,07
92	45,41	alpha-CURCUMENE	0,04
93	45,62	SELINADIENE ISOMER	0,02
94	45,76	SELINA-3,7-DIENE	0,05
95	46,14	CADINA-1,4-DIENE	0,04
96	46,41	MYRTENOL	0,02
97	46,54	alpha-AMORPHENE	0,03
98	47,94	CUPARENE	0,04
99	48,42	GERMACRENE B	0,28
100	48,65	trans-CARVEOL	0,05
101	48,70	CALAMENENE	0,05
102	49,32	p-CYMENE-8-OL	0,06
103	50,34	cis-CARVEOL	0,03
104	52,03	epi-CUBEBOL	0,02
105	52,19	6-epi-SHYOBUNOL	0,03
106	54,80	CUBEBOL	0,01
107	56,71	CARYOPHYLLENE EPOXIDE	0,04
108	57,61	CHRYSANthemOL ISOMER	0,02
109	58,14	HUMULOL	0,02
110	59,64	epoxy-6,7-HUMULENE	0,03
111	59,98	NEROLIDOL	0,03
112	60,33	GERMACRENE D-4-OL	0,03
113	60,63	epi-CUBENOL	0,02
114	61,03	CUBENOL	0,03
115	61,30	IONONE ISOMER	0,01
116	61,85	ELEMOL	0,11
117	62,40	CEDROL ISOMER	0,02
118	62,87	AROMATIC COMPOUND Mw=222	0,30
119	63,26	AROMATIC COMPOUND Mw=222	0,13
120	63,43	SESQUITERPENIC EPOXIDE	0,05

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: JUNIPER BERRY ESSENTIAL OIL (INDIA) – 11072

Peak	RT (min)	Compound name	%
121	63,66	CEDROL	4,44
122	64,41	CEDROL ISOMER	0,03
123	65,54	CEDROL ISOMER	0,02
124	65,85	CEDRYL ACETATE	0,08
125	66,19	T-CADINOL	0,06
126	66,99	alpha-MUUROLOL	0,04
127	67,53	delta-CADINOL	0,02
128	68,26	DITERPENE Mw=272	0,01
129	68,67	alpha-EUDESOL	0,04
130	68,96	beta-EUDESOL	0,03
131	69,07	alpha-CADINOL	0,07
132	69,74	CITRONELLIC ACID	0,05
133	70,20	beta-NOOTKATOL	0,03
134	70,55	DITERPENE Mw=272	0,02
135	71,91	COMPOUND Mw=280	0,03
136	73,68	SANDARACOPIMARADIENE Mw=272	0,05
137	74,01	beta-ASARONE	0,07
138	74,58	MANOYL OXIDE	0,08
139	75,00	AROMATIC COMPOUND	0,02
140	75,37	COMPOUND Mw=220	0,02
141	75,72	DITERPENE Mw=272	0,03
142	79,48	BIFORMENE	0,32
143	80,94	ABIETATRIENE	0,03
144	82,35	10-HYDROXYOPLOPANONE	0,01
145	83,64	DITERPENE Mw=272	0,03
146	92,11	DITERPENIC COMPOUND Mw=286	0,02
147	94,33	PIMARINAL	0,02
148	95,60	DITERPENIC COMPOUND Mw=286	0,03
149	101,04	DITERPENIC COMPOUND Mw=286	0,16
150	103,36	DITERPENIC COMPOUND Mw=286	0,02
		TOTAL	99,88

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