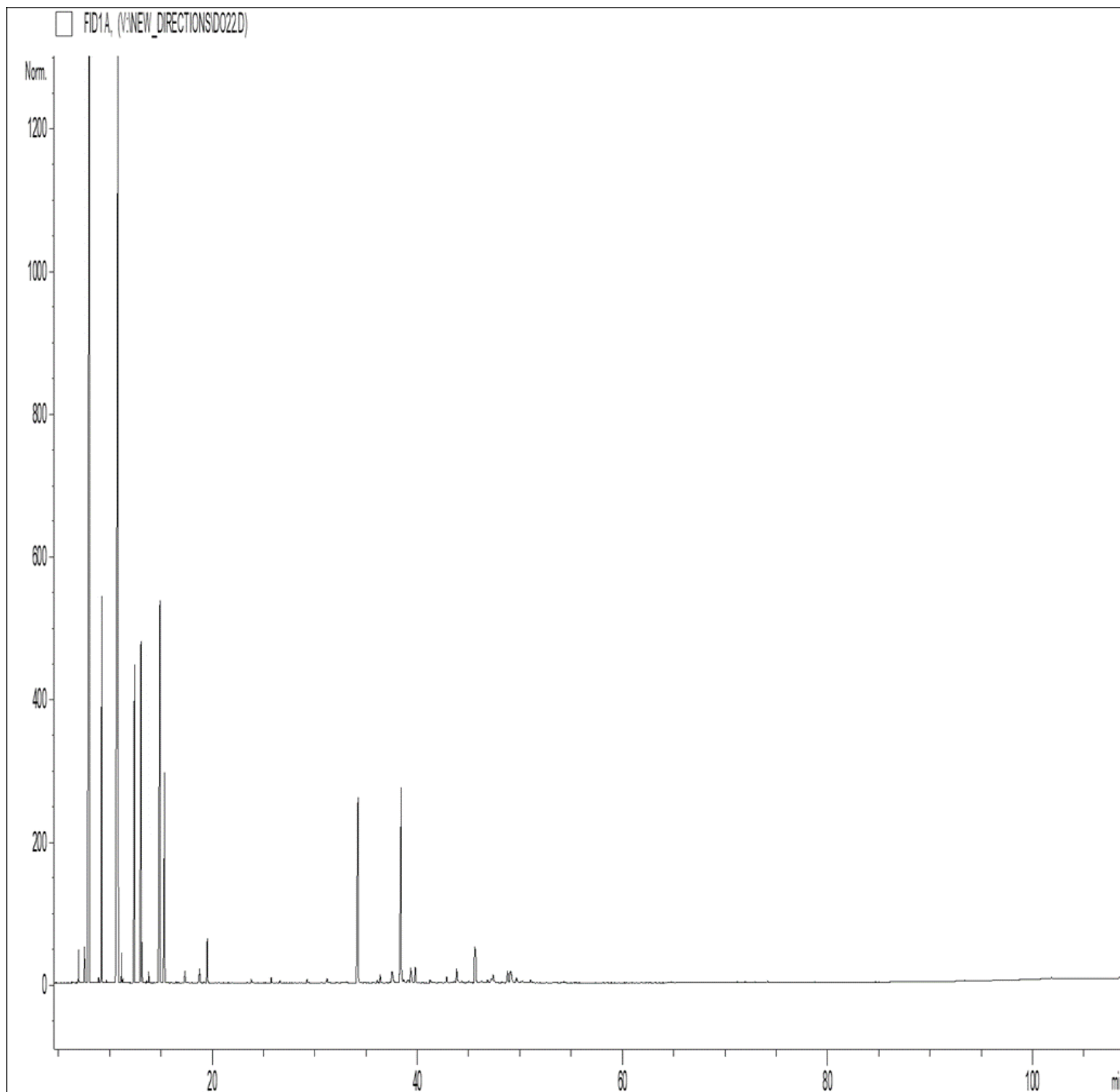


GCMS ANALYSIS

PRODUCT NAME: SPRUCE ESSENTIAL OIL - WHITE - 11136

DATE: January 12, 2021



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: SPRUCE ESSENTIAL OIL - WHITE - 11136

Peak	RT (min)	Compound	%
1	6,31	FURAN, 2-ETHYL-	0,01
2	6,94	SANTENE	0,31
3	7,52	TRICYCLENENE	0,45
4	7,98	alpha-PINENE	23,58
5	8,00	alpha-THUYENE	0,12
6	8,90	alpha-FENCHENE	0,06
7	9,21	CAMPHENE	4,80
8	9,67	HEXANAL	0,03
9	10,83	beta-PINENE	30,50
10	11,16	SABINENE	0,30
11	11,30	PINADIENE	0,05
12	12,43	delta3-CARENE	5,17
13	13,05	beta-MYRCENE	5,80
14	13,15	alpha-PHELLANDRENE	0,33
15	13,30	psi-LIMONENE	0,01
16	13,63	o-CYMENE	0,03
17	13,80	alpha-TERPINENE	0,15
18	14,90	LIMONENE	8,24
19	15,35	beta-PHELLANDRENE	3,39
20		1,8-CINEOLE	
21	15,95	2-HEXENAL	0,02
22	16,47	FURAN,2-PENTYL-	0,02
23	17,35	gamma-TERPINENE	0,24
24	18,77	p-CYMENE	0,29
25	19,18	ISOTERPINOLENE	0,02
26	19,53	TERPINOLENE	0,79
27	23,81	1-HEXANOL	0,07
28	25,77	3-HEXEN-1-OL	0,09
29	26,60	FENCHONE	0,06
30	28,05	COMPOUND Mw=150	0,02

Disclaimer & Caution:

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GCMS ANALYSIS (cont'd.)
PRODUCT NAME: SPRUCE ESSENTIAL OIL - WHITE - 11136

Peak	RT (min)	Compound	%
31	29,25	alpha-p-DIMETHYLSTYRENE	0,07
32	31,21	alpha-LONGIPINENE	0,09
33	31,25	FENCHYL ACETATE	0,03
34	32,65	alpha-CAMPHOLENAL	0,02
35	32,81	ALIPHATIC ESTER	0,02
36	33,11	LONGICYCLENE	0,03
37	34,21	CAMPHOR	4,15
38	36,06	beta-PINOCAMPHONE	0,06
39	36,36	LINALOOL	0,13
40	37,31	PINOCARVONE	0,03
41	37,54	LONGIFOLENE	0,41
42	38,12	trans-p-MENTH-2-EN-1-OL	0,01
43	38,41	BORNYL ACETATE	4,91
44	38,63	ISOBORNYL ACETATE	0,08
45	38,75	METHYL THYMOL ETHER	0,03
46	39,05	beta-ELEMENE	0,04
47	39,12	CAMPHENE HYDRATE	0,07
48	39,35	beta-CARYOPHYLLENE	0,42
49	39,78	TERPINENE-4-OL	0,30
50	41,24	MYRTENAL	0,07
51	41,35	MYRTENIC ESTER	0,03
52	42,84	trans-PINOCARVEOL	0,14
53	43,55	ESTRAGOL	0,05
54	43,81	alpha-HUMULENE	0,38
55	44,30	Z-beta-FARNESENE	0,06
56	45,00	gamma-MUUROLENE	0,07
57	45,59	BORNEOL	0,64
58	45,65	alpha-TERPINEOL	0,62
59	46,11	GERMACRENE D	0,03
60	46,27	MUUROLADIENE ISOMER	0,07

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GCMS ANALYSIS (cont'd.)
PRODUCT NAME: SPRUCE ESSENTIAL OIL - WHITE - 11136

Peak	RT (min)	Compound	%
61	46,82	alpha-SELINENE	0,08
62	47,20	PIPERITONE	0,16
63	47,37	alpha-MUUROLENE	0,27
64	48,20	beta-CURCUMENE	0,02
65	48,77	delta-CADINENE	0,33
66	49,07	gamma-CADINENE	0,50
67	49,65	SESQUITERPENE	0,14
68	50,09	CITRONELLOL	0,03
69	50,23	alpha-CURCUMENE	0,05
70	51,00	trans-alpha-BISABOLENE	0,06
71	51,17	MYRTENOL	0,04
72	53,35	cis-CALAMENENE	0,04
73	53,55	trans-CALAMENENE	0,02
74	54,27	p-CYMENE-8-OL	0,04
75	61,82	CARYOPHYLLENE EPOXIDE	0,02
76	63,18	METHYLEUGENOL	0,01
77	64,71	NEROLIDOL	0,03
78	68,95	cis-3-HEXENYL BENZOATE	0,02
79	71,18	T-CADINOL	0,02
80	71,98	alpha-MUUROLOL	0,02
81	72,95	GERANYLGERANIADIENE ISOMER Mw=272	0,02
82	74,14	alpha-CADINOL	0,04
83	93,36	Epi-MANOOL	0,02
84	101,84	DITERPENIC COMPOUND Mw=286	0,02
		TOTAL	100,00

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