



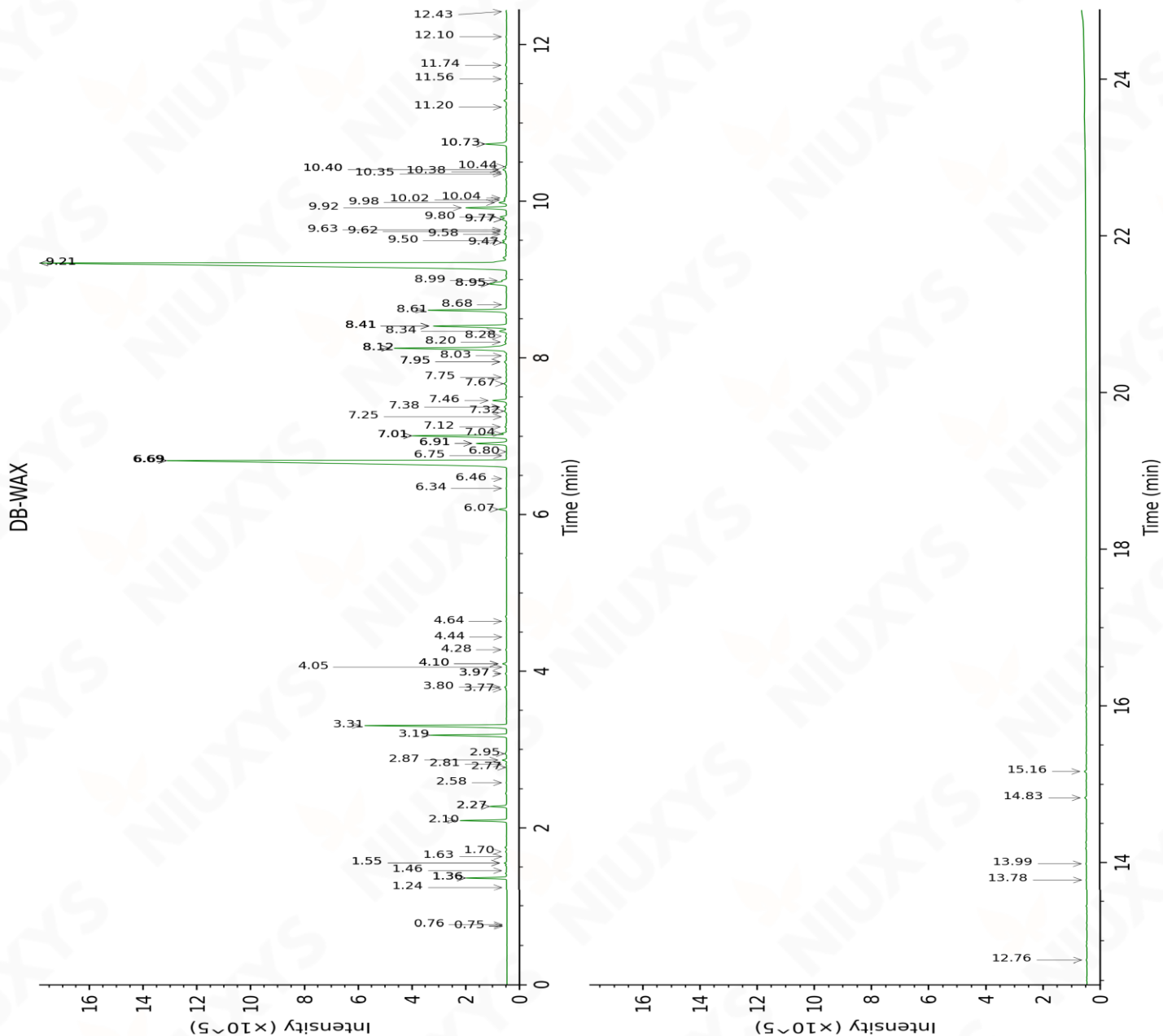
**NIUXYS**

ESSENTIAL OILS

### GCMS ANALYSIS

PRODUCT NAME: PEPPERMINT ESSENTIAL OIL

DATE: 25 April, 2022



Due to Volume turnover, this report is not lot specific, it is representative of the quality of this oil produced by the manufacturer or this product. Specific lots may Vary slightly as is the case in natural products



ESSENTIAL OILS

### GCMS ANALYSIS (*cont'd*)

PRODUCT NAME: PEPPERMINT ESSENTIAL OIL

Peak	RT (min)	Compound name	%
1	0,54	ISOVALERAL	tr
2	0,57	2-METHYLBUTYRAL	tr
3	2,39	<i>trans</i> -2,5DIETHYLTETRAHYDROFURAN	0,05
4	2,64	HASHISHENE	0,01
5	2,68	TRICYCLENE	tr
6	2,79	$\alpha$ -THUJENE	0,03
7	2,86	$\alpha$ -PINENE	1,08
8	3,05*	$\alpha$ -FENCHENE	0,07
9	3,05*	<i>trans</i> -3-METHYLCYCLOHEXANOL	[0,07]
10	3,05*	CAMPHENE	[0,07]
11	3,08	3-METHYLCYCLOHEXANONE	[0,07]
12	3,15	THUJA-2,4(10)-DIENE	0,01
13	3,47*	$\beta$ -PINENE	1,98
14	3,47*	<i>cis</i> -PARA-MENTHANE	[1,98]
15	3,47*	SABINENE	[1,98]
16	3,62	OCTEN-3-OL	0,04
17	3,68*	OCTAN-3-ONE	0,04
18	3,68*	<i>trans</i> -PARA-MENTHANE	[0,04]
19	3,79	MYRCENE	0,14
20	3,93*	$\alpha$ -PHELLANDRENE	0,31
21	3,93*	PSEUDOLIMONENE	[0,31]
22	3,93*	OCTAN-3-OL	[0,31]
23	4,00	$\delta$ 3-CARENE	0,02
24	4,12	$\alpha$ -TERPINENE	0,06
25	4,19	<i>meta</i> -CYMENE	0,02
26	4,25	<i>para</i> -CYMENE	0,12
27	4,34*	LIMONENE	8,22
28	4,34*	1,8-CINEOLE	[8,22]
29	4,38	2-ETHYLHEXANOL	0,01
30	4,53	( <i>Z</i> )-B-OCIMENE	0,03

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### GCMS ANALYSIS (cont'd)

PRODUCT NAME: PEPPERMINT ESSENTIAL OIL

Peak	RT (min)	Compound name	%
31	4,68	(E)-B-OCIMENE	0,04
32	4,79	γ-TERPINENE	0,05
33	4,95*	cis-SABINENE HYDRATE	0,04
34	4,95*	para-MENTHA-3,8-DIENE	[0,04]
35	5,03	cis-LINALOOL OXIDE (FUR,)	0,01
36	5,14	OCTANOL	0,02
37	5,24	TERPINOLENE	0,04
38	5,28	PARA-CYMENENE	[0,04]
39	5,42	trans-SABINENE HYDRATE	0,01
40	5,55*	LINALOOL	0,07
41	5,55*	2-METHYLBUTYL 2- METHYLBUTYRATE	[0,07]
42	6,06	trans-SABINOL	0,01
43	6,18	ISOPULEGOL	0,08
44	6,33	MENTHONE	24,94
45	6,44*	MENTHOFURAN	7,82
46	6,44*	ISOMENTHONE	[7,82]
47	6,52*	NEO-MENTHOL	[7,82]
48	6,52*	δ-TERPINEOL	[7,82]
49	6,76*	MENTHOL	36,46
50	6,76*	TERPINEN-4-OL	[36,46]
51	6,80	ISOMENTHOL	0,44
52	6,91*	α-TERPINEOL	0,43
53	6,91*	NEOISO-MENTHOL	[0,43]
54	6,93	MYRTENAL	[0,43]
55	7,01	trans-ISOPIPERITENOL	0,06
56	7,06	UNKNOWN [M/Z 43, 99(84), 81 (46), 986 (43),126 (36), 71 (28),,, 170(12)]	0,05
57	7,09	trans-PIPERITOL	0,01
58	7,30	cis-ISOPIPERITENOL	0,01
58	7,50	cis-CARVEOL	0,02
59	7,57*	PULEGONE	0,75
60	7,57*	CITRONELLOL	[0,75]

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### GCMS ANALYSIS (cont'd)

PRODUCT NAME: PEPPERMINT ESSENTIAL OIL

Peak	RT (min)	Compound name	%
61	7,66	CARVONE	0,05
62	7,81	PIPERITONE	1,66
63	8,00	ISOPIPERITENONE	0,01
64	8,16	NEO-MENTHYL ACETATE	0,05
65	8,23*	UNKNOWN [M/Z 119, 79 (94), 91 (0), 84 (80), 93 (68),,,]	5,16
66	8,23*	DECANOL	[5,16]
67	8,46	MENTHYL ACETATE	[5,16]
68	8,49	DIHYDROEDULAN II	0,04
69	8,55	THYMOL	0,01
70	8,61	ISOMENTHYL ACETATE	0,04
71	8,77	NEOISO-MENTHYL ACETATE?	0,02
72	9,00	BICYCLOELEMENE	0,02
73	9,08	PIPERITENONE	0,01
74	9,19	$\alpha$ -CUBEBENE	0,04
75	9,24	EVODONE	0,02
76	9,36	EUGENOL	0,07
77	9,47	$\alpha$ -YLANGENE	0,04
78	9,54	$\alpha$ -COPAENE	0,08
79	9,57	$\beta$ -BOURBONENE ISOMER	0,09
80	9,65*	$\beta$ -BOURBONENE	0,60
81	9,65*	1,5-DIEPI-B- BOURBONENE	[0,60]
82	9,75	$\beta$ -CUBEBENE	0,03
83	9,79	$\beta$ -ELEMENE	0,36
84	9,88*	LONGIFOLENE	0,14
85	9,88*	UNKNOWN [M/Z 107, 121 (79), 119 (66), 91(58), 136 (55), 105 (49),,, 194 (1)]	[0,14]
86	9,95	UNKNOWN [M/Z 106,119 (99), 43 (78), 91(74), 105 (60)134(55),,, 204 (19)]	0,09
87	10,01	ISOCARYOPHYLLENE	0,14
88	10,06	UNKNOWN [M/Z 109, 95(88), 69 (66), 135 (56),82 (54), 41(45),,,]	0,03
89	10,12*	$\beta$ -YLANGENE	3,72
90	10,12*	$\beta$ -CARYOPHYLLENE	[3,72]

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### GCMS ANALYSIS (cont'd)

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PRODUCT NAME: PEPPERMINT ESSENTIAL OIL

Peak	RT (min)	Compound name	%
91	10,23	UNKNOWN [M/Z 109, 81 (79), 95 (73), 68 (63), 82(55), 69 (54), 55 (51), 163 (47),...]	0,12
92	10,26	$\beta$ -COPAENE	0,37
93	10,40	<i>trans</i> - $\alpha$ -BERGAMOTENE	0,09
94	10,46	ISOGERMACRENE D	0,18
95	10,57	$\alpha$ -HUMULENE	0,68
96	10,74	( <i>E</i> )- $\beta$ -FARNESENE	0,13
97	10,91	$\gamma$ -MUUROLENE	0,12
98	10,95	GERMACRENE D	0,21
99	11,16*	VIRIDIFLORENE	0,40
100	11,16*	BICYCLOGERMACRENE	[0,40]
101	11,24	$\alpha$ -MUUROLENE	0,06
102	11,40	$\gamma$ -CADINENE	0,05
103	11,54	$\delta$ -CADINENE	0,11
104	12,14	( <i>E</i> )-NEROLIDOL	0,01
105	12,22	CARYOPHYLLENE OXIDE	0,01
106	12,39	VIRIDIFLOROL	0,02
		<b>TOTAL</b>	<b>98,83%</b>

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