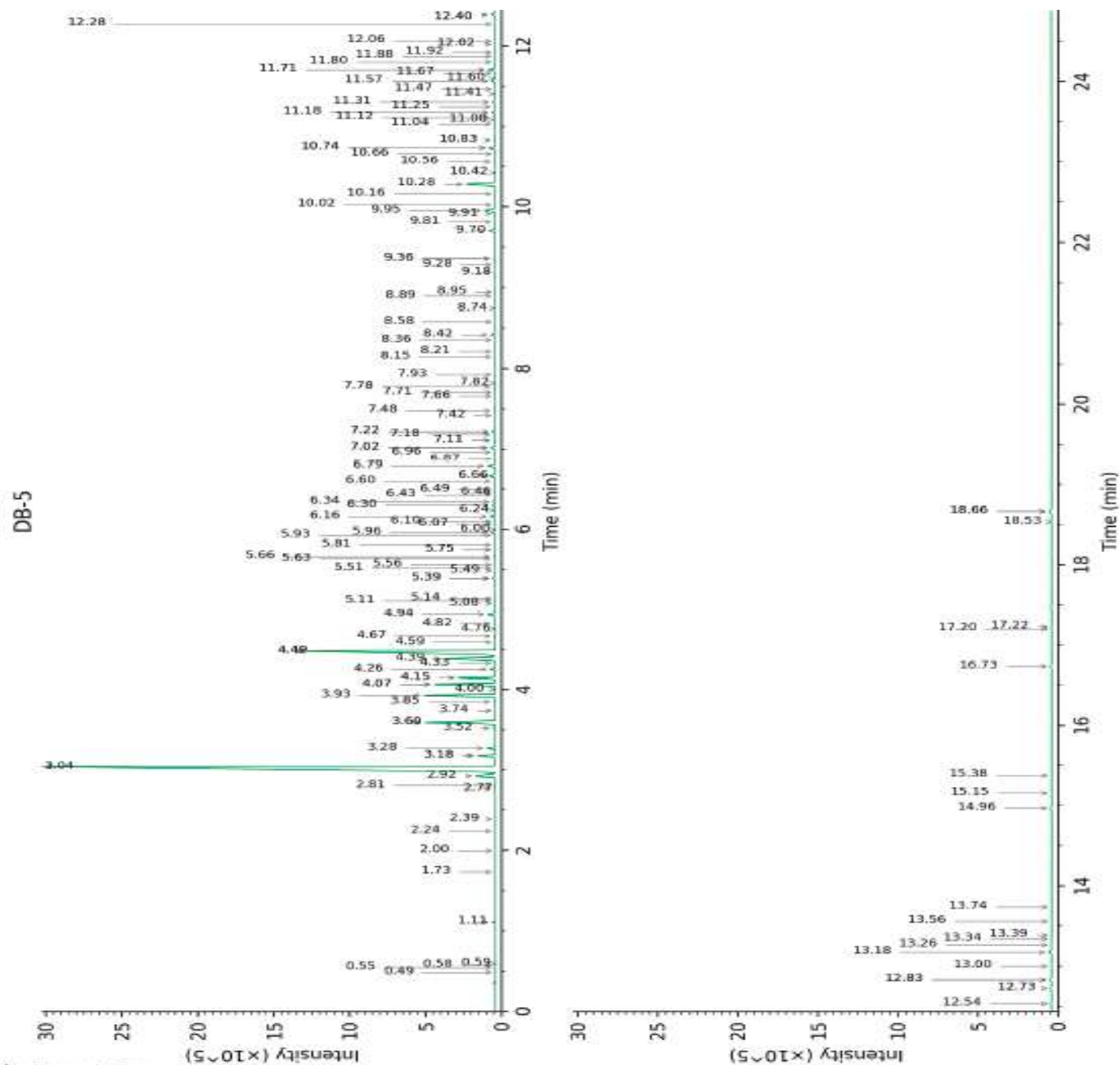


## GCMS ANALYSIS

PRODUCT NAME: FRANKINCENSE ESSENTIAL OIL - BOSWELLIA CARTERII - 11298  
DATE: April 29, 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: FRANKINCENSE ESSENTIAL OIL - BOSWELLIA CARTERII - 11298

Peak	RT (min)	Compound name	%
1	0,49	2-METHYL-3-BUTEN-2-OL	0,01
2	0,55	(E)-2-METHYL-1,3-PENTADIENE	0,01
3	0,58	ISOVALERAL	tr
4	0,60	3-METHYL-2-BUTANONE	tr
5	1,11	TOLUENE	0,10
6	1,73	UNKNOWN [M/Z 109, 67 (32), 81(14), 41 (12), 124(10)]	0,02
7	2,00	UNKNOWN [M/Z 109, 43 (28), 124(28), 41 (14), 55(11), 79 (9), 81(8),,,]	0,01
8	2,24	UNKNOWN [M/Z 79,78 (45), 91 (28), 77(28), 41 (13), 80(12), 107 (11),,, 122(1)]	0,02
9	2,39	UNKNOWN [M/Z 119, 91 (35), 79(17), 77 (13), 120(11), 117 (9),,, 134(1)]	0,01
10	2,76	HASHISHENE	0,07
11	2,80	<b>TRICYCLENE</b>	<b>0,07</b>
12	2,92	<b>α-THUJENE</b>	<b>1,72</b>
13	3,04	α-PINENE	47,32
14	3,18*	UNKNOWN [M/Z 91,92 (47), 65 (11),,, 134 (1)]	0,96
15	3,18*	CAMPHENE	[0,96]
16	3,18*	α-FENCHENE	[0,96]
17	3,28	THUJA-2,4(10)-DIENE	0,45
18	3,52	<b>META-CYMENE</b>	<b>0,13</b>
19	3,60*	<b>β-PINENE</b>	<b>4,87</b>
20	3,60*	SABINENE	[4,87]
21	3,74	UNKNOWN [M/Z 93,79 (73), 67 (49), 95(42), 91 (41), 121(38),,,]	0,01
22	3,85	DEHYDRO-1,8-CINEOLE	0,11
23	3,93	MYRCENE	4,15
24	4,00	6-METHYL-5-HEPTEN-2-OL	0,01
25	4,07*	α-PHELLANDRENE	3,62
26	4,07*	PSEUDOLIMONENE	[3,62]
27	4,15*	Δ <sup>3</sup> -CARENE	2,02
28	4,15*	ORTHO-METHYLANISOLE	[2,02]
29	4,26	α-TERPINENE	0,29
30	4,33	ORTHO-CYMENE	0,02

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: FRANKINCENSE ESSENTIAL OIL - BOSWELLIA CARTERII - 11298

Peak	RT (min)	Compound name	%
31	4,39	PARA-CYMENE	3,84
32	4,48*	<b>LIMONENE</b>	<b>15,94</b>
33	4,48*	1,8-CINEOLE	[15,94]
34	4,48*	β-PHELLANDRENE	[15,94]
35	4,59	CYMENE ANALOG	0,03
36	4,67	(Z)-B-OCIMENE	0,09
37	4,76	UNKNOWN [M/Z 109, 43 (57), 91(28), 67 (25), 93(24), 95 (22), 77(21), 137 (21), 41(17), 79 (14),,,,]	0,01
38	4,82	(E)-B-OCIMENE	0,07
39	4,94	γ-TERPINENE	0,45
40	5,08	CIS-SABINENE HYDRATE	0,01
41	5,11	UNKNOWN [M/Z 79,93 (60), 43 (40), 94(35), 137 (33), 77(26), 91 (20), 152(18)]	0,03
42	5,14	CIS-LINALOOL OXIDE (FUR,)	0,01
43	5,39*	<b>PARA-CYMENENE</b>	<b>0,28</b>
44	5,39*	ISOTERPINOLENE	[0,28]
45	5,39*	TERPINOLENE	[0,28]
46	5,49	α-PINENE OXIDE	0,01
47	5,51	6,7-EPOXYMYRCENE	0,01
48	5,56	TRANS-SABINENEHYDRATE	0,01
49	5,63	PERILLENE	0,06
50	5,66	LINALOOL	0,12
51	5,75*	VERBENOL ANALOG?	0,06
52	5,75*	ISOAMYL ISOVALERATE	[0,06]
53	5,81	β-THUJONE	0,04
54	5,93	CIS-PARA-MENTH-2-EN-1-OL	0,04
55	5,96	α-CAMPHOLENAL	0,25
56	6,00	MYRCENOL	0,04
57	6,07	CIS-LIMONENE OXIDE	0,01
58	6,10	ALLO-OCIMENE	0,02
59	6,16	TRANS-PINOCARVEOL	0,32
60	6,24	TRANS-SABINOL	0,08

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GCMS ANALYSIS (*cont'd.*)

PRODUCT NAME: FRANKINCENSE ESSENTIAL OIL - BOSWELLIA CARTERII - 11298

Peak	RT (min)	Compound name	%
61	6,30	TRANS-VERBENOL	0,18
62	6,34	META-MENTHA-4,6-DIEN-8-OL	0,15
63	6,43	UNKNOWN [M/Z 109, 81 (39), 41(38), 95 (24),,, 152(1)]	0,02
64	6,46	PINOCAMPHONE	0,03
65	6,49	PINOCARVONE	0,03
66	6,60	BORNEOL	0,09
67	6,66	$\alpha$ -PHELLANDREN-8-OL	0,41
68	6,79	TERPINEN-4-OL	0,50
69	6,87	THUJ-3-EN-10-AL	0,04
70	6,96	PARA-CYMEN-8-OL	0,06
71	7,02*	MYRTENAL	0,38
72	7,02*	$\alpha$ -TERPINEOL	[0,38]
73	7,11*	MYRTENOL	0,11
74	7,11*	METHYLCHAVICOL	[0,11]
75	7,18	CIS- $\alpha$ -PHELLANDRENE EPOXIDE (IPP VS ME)	0,13
76	7,22*	VERBENONE	0,22
77	7,22*	TRANS-PIPERITOL	[0,22]
78	7,42	OCTYL ACETATE	0,01
79	7,48	TRANS-CARVEOL	0,12
80	7,66	CIS-CARVEOL	0,04
81	7,71	CUMINAL	0,03
82	7,78	CARVONE	0,12
83	7,82	CARVOTANACETONE	0,02
84	7,93	PIPERITONE	0,04
85	8,15	LINALYL ACETATE	0,03
86	8,22	3,5-DIMETHOXYTOLUENE	0,04
87	8,36	DECANOL	0,01
88	8,42	BORNYL ACETATE	0,29
89	8,58	PARA-CYMEN-7-OL	0,01
90	8,74	THYMOL	0,01

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GCMS ANALYSIS (*cont'd.*)

PRODUCT NAME: FRANKINCENSE ESSENTIAL OIL - BOSWELLIA CARTERII - 11298

Peak	RT (min)	Compound name	%
91	8,89	CARVACROL	0,06
92	8,94	UNKNOWN [M/Z 97,112 (92), 83 (62),43 (44), 41 (25),,,170? (4)]	0,01
93	9,18	BICYCLOELEMENE	0,04
94	9,28	UNKNOWN [M/Z 133, 105 (45), 91(38), 119 (36),,,150(3)]	0,02
95	9,36*	$\alpha$ -CUBEBENE	0,15
96	9,36*	$\alpha$ -TERPINYL ACETATE	[0,15]
97	9,70	$\alpha$ -COPAENE	0,46
98	9,81	$\beta$ -BOURBONENE	0,05
99	9,91	$\beta$ -CUBEBENE	0,04
100	9,95	B-ELEMENE	0,74
101	10,02	UNKNOWN [M/Z 71,100 (92), 111 (79),69 (46), 109 (45),,,]	0,01
102	10,16	$\alpha$ -GURJUNENE	0,04
103	10,28	<b><math>\beta</math>-CARYOPHYLENE</b>	<b>2,00</b>
104	10,42	$\beta$ -COPAENE	0,03
105	10,56	TRANS-A- BERGAMOTENE	0,09
106	10,66	6,9-GUAIADIENE	0,01
107	10,74*	TRANS-MUUROLA-3,5- DIENE	0,49
108	10,74*	$\alpha$ -HUMULENE	[0,49]
109	10,83*	ALLO- AROMADENDRENE	0,10
110	10,83*	CIS-MUUROLA- 4(15),5-DIENE	[0,10]
111	11,04	TRANS-CADINA- 1(6),4-DIENE	0,06
112	11,08	$\gamma$ -MUUROLENE	0,16
113	11,12	GERMACRENE D	0,17
114	11,18	$\beta$ -SELINENE	0,24
115	11,25	TRANS-MUUROLA- 4(15),5-DIENE	0,12
116	11,31	$\alpha$ -SELINENE	0,26
117	11,41	$\alpha$ -MUUROLENE	0,12
118	11,47	GERMACRENE A	0,01
119	11,57	$\gamma$ -CADINENE	0,26
120	11,60	CUBEBOL	0,07

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: FRANKINCENSE ESSENTIAL OIL - BOSWELLIA CARTERII - 11298

Peak	RT (min)	Compound name	%
121	11,67	ENDO-1- BOURBONANOL	0,02
122	11,71*	$\Delta$ -CADINENE	0,52
123	11,71*	ZONARENE	[0,52]
124	11,80	TRANS-CADINA-1,4- DIENE	0,04
125	11,88	$\alpha$ -CADINENE	0,03
126	11,92	$\alpha$ -CALACORENE	0,02
127	12,02	ISOCARYOPHYLLENE EPOXIDE B	0,01
128	12,06	$\alpha$ -ELEMOL	0,07
129	12,28	PALUSTROL C	0,01
130	12,40*	ARYOPHYLLENE OXIDE	0,32
131	12,40*	CARYOPHYLLENE OXIDE ISOME	[0,32]
132	12,54	R VIRIDIFLOROL	0,04
133	12,73*	COPABORNEOL	0,07
134	12,73*	HUMULENE EPOXIDE II	[0,07]
135	12,83*	10-EPI-CUBENOL	0,10
136	12,83*	JUNENOL	0,10]
137	13,00	1-EPI-CUBENOL	0,03
138	13,18	T-CADINOL	0,20
139	13,26	$\alpha$ -MUUROLOL	0,04
140	13,34	$\alpha$ -CADINOL	0,02
141	13,39	DIHYDROEUDESMOL	0,01
142	13,56	(3Z)-CARYOPHYLLA-3,8(13)-DIEN-5B-OL	0,02
143	13,74	SHYOBUNOL	0,01
144	14,96	$\alpha$ -PHELLANDRENE DIMER II	0,06
145	15,15	$\alpha$ -PHELLANDRENE DIMER III	0,02
146	15,38	$\alpha$ -PHELLANDRENE DIMER IV	0,01
147	16,73	(3E)-CEMBRENE A	0,08
148	17,20	CEMBRENE C	0,02
149	17,22	VERTICILLA-4(20),7,11-TRIENE	0,02
150	18,53	CEMBRENOL	0,04

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: FRANKINCENSE ESSENTIAL OIL - BOSWELLIA CARTERII - 11298

Peak	RT (min)	Compound name	%
151	18,66*	SERRATOL	0,24
152	18,66*	INCENSOLE	[0,24]
		<b>TOTAL</b>	<b>98,86</b>

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