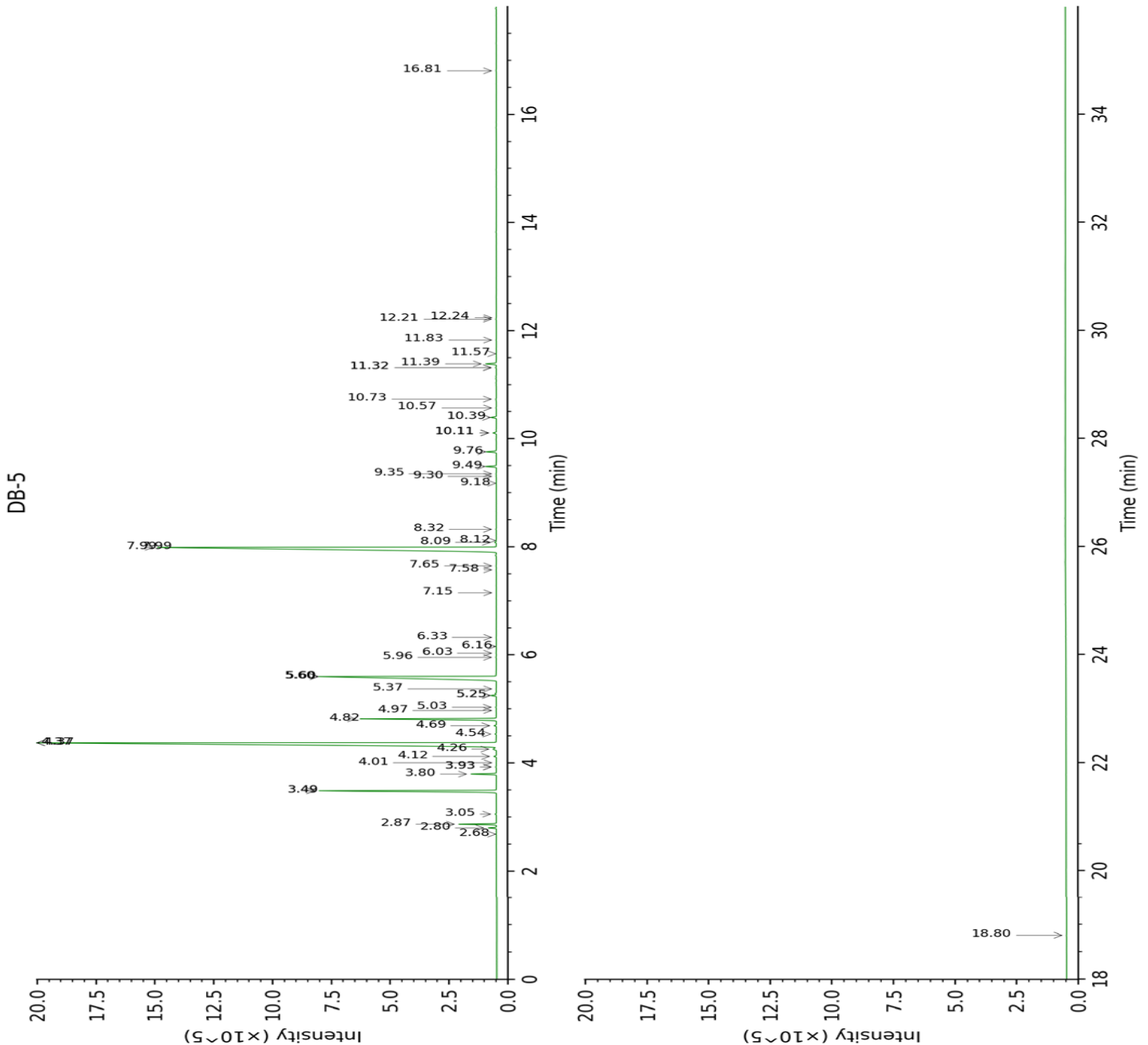


GCMS ANALYSIS

PRODUCT NAME: BERGAMOT BERGAPTENE-FREE (CALABRIAN) ESSENTIAL OIL- VERIFIED BY ECOCERT / COSMOS APPROVED – 11227
DATE: April 14, 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: BERGAMOT BERGAPTENE-FREE (CALABRIAN) ESSENTIAL OIL- VERIFIED BY ECOCERT /
 COSMOS APPROVED – 11227

Peak	RT (min)	Compound	%
1	2.68	TRICYCLENENE	0.01
2	2.80	α -THUJENE	0.25
3	2.87	α -PINENE	1.16
4	3.05	CAMPHENE	0.04
5	3.49*	SABINENE	7.94
6	3.49*	β -PINENE	[7.94]
7	3.80	MYRCENE	0.84
8	3.93*	A-PHELLANDRENE	0.03
9	3.93*	PSEUDOLIMONENE	[0.03]
10	4.01	δ 3-CARENE	0.01
11	4.12	α -TERPINENE	0.09
12	4.26	para-CYMENE	0.21
13	4.37*	1,8-CINEOLE	36.48
14	4.37*	LIMONENE	[36.48]
15	4.54	(Z)- β -OCIMENE	0.05
16	4.69	(E)- β -OCIMENE	0.08
17	4.82	γ -TERPINENE	5.60
18	4.97	cis-SABINENE HYDRATE	0.02
19	5.03	cis-LINALOOL OXIDE (FUR.)	0.03
20	5.25*†	TRANS-LINALOOL OXIDE (FUR.)	0.25
21	5.25*†	TERPINOLENE	[0.25]
22	5.37	TRANS-SABINENE HYDRATE	0.02
23	5.60*	HOTRIENOL	14.07
24	5.60*	LINALOOL	[14.07]
25	5.60*	NONANAL	[14.07]
26	5.96	cis-LIMONENE OXIDE	0.02
27	6.03	trans-LIMONENE OXIDE	0.01
28	6.16	EPOXYTERPINOLENE	0.01
29	6.33	CITRONELLAL	0.01
30	7.15	DECANAL	0.01

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: BERGAMOT BERGAPTENE-FREE (CALABRIAN) ESSENTIAL OIL- VERIFIED BY ECOCERT / COSMOS APPROVED – 11227

Peak	RT (min)	Compound	%
31	7.58	NEROL	0.01
32	7.65	NERAL	0.01
33	7.99*	GERANIOL	30.45
34	7.99*	LINALYL ACETATE	[30.45]
35	8.08	(<i>trans</i> ?)-LINALOOLOXIDE ACETATE (FUR.)?	0.06
36	8.12	GERANIAL	0.02
37	8.32	BORNYL ACETATE	0.02
38	9.18	A-TERPINYL ACETATE	0.01
39	9.30	UNKNOWN [M/Z43, 121 (52), 93 (48), 79 (33), 41 (30), 136 (26), 81 (25)...]	0.01
40	9.35	UNKNOWN [M/Z43, 79 (46), 71 (30), 94 (25), 41 (23), 81 (21)... 197(0)]	0.02
41	9.49	NERYL ACETATE	0.40
42	9.76	GERANYL ACETATE	0.39
43	10.11*	<i>cis</i> - α -BERGAMOTENE	0.14
44	10.11*	β -CARYOPHYLLENE	[0.14]
45	10.40	<i>trans</i> - α -BERGAMOTENE	0.22
46	10.57	α -HUMULENE	0.01
47	10.73	(<i>E</i>)- β -FARNESENE	0.02
48	11.32*	(<i>Z</i>)- α -BISABOLENE	0.03
49	11.32*	HODIENDIOL DERIVATIVE II	[0.03]
50	11.39	β -BISABOLENE	0.43
51	11.57	δ -CADINENE	0.01
52	11.83	(<i>E</i>)-A-BISABOLENE	0.01
53	12.21	SPATHULENOL	0.02
54	12.24	CARYOPHYLLENE OXIDE	0.01
55	16.81	PALMITIC ACID	0.02
56	18.80	STEARIC ACID	0.01
		TOTAL	99.64%

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