Buddhawood Essential Oil

ANALYSIS

Laboratoire
PhytoChemia

SAMPLE IDENTIFICATION

Internal code : 17G04-FSE2-1-DM
Customer identification : Buddhawood - Australia - ea-201016
Type : Essential oil
Source : *Eremophillia mitchelli*
Customer : Flowers Shining Everywhere Inc.

ANALYSIS

Method : PC-PA-001-15E06, "Analysis of the composition of a liquid essential oil by GC-FID" (in French).
Analyst : Sylvain Mercier, M. Sc., chimiste
Analysis date : 2017-07-07

Checked and approved by :

Alexis St-Gelais, M. Sc., chimiste 2013-174

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IDENTIFIED COMPOUNDS

Identification	Column: BP5 R.T.	R.I.	%	Column: WAX %	R.I.	R.T.	Molecular Class
β-Elemene	18.97	1380	0.01	0.01	1527	9.00	Sesquiterpene
Unknown (m/z = 111, 126 (62), 41 (47), 69 (44), 179 (28), 123 (28)... 194 (17)...)	23.85	1443	0.06				
4,5-diepi-Aristolochene	24.72	1453	0.19	0.25	1596	11.37*	Sesquiterpene
γ-Selinene	25.18	1459	0.08	[0.25]	1596	11.37*	Sesquiterpene
Eremophilene	26.35	1473	1.26	1.26	1627	12.50	Sesquiterpene
α-Selinene	26.92	1480	0.23	0.23	1639	12.93	Sesquiterpene
Nootkatene	27.65	1489	0.14	0.13	1697	15.87	Sesquiterpene
γ-Vetivenene	29.56	1514	0.05	0.06	1726	17.35	Sesquiterpene
β-Vetivenene	31.17	1536	0.09	0.10	1748	18.48	Sesquiterpene
Unknown (m/z = 96, 68 (95), 206 (91), 109 (53), 67 (49))	33.63	1570	0.16				
Unknown (m/z = 151, 152 (67), 194 (61), 109 (60), 124 (50), 110 (46), 137 (42))	34.83	1587	0.33				
Unknown (m/z = 43, 81 (100), 135 (77), 204 (72), 67 (70), 71 (68), 189 (63), 207 (62), 95 (61)... 222 (5))	36.23	1611	1.24	1.12	2033	36.02	Oxygenated sesquiterp.
Unknown (m/z = 111, 55 (100), 41 (97), 109 (93), 108 (72), 189 (71), 67 (70)... 204 (63), 222 (4))	37.80	1650	1.08				Oxygenated sesquiterp.
Unknown (m/z = 151, 109 (32), 67 (23), 95 (18), 41 (17)... 220 (7))	38.05	1656	0.83				Oxygenated sesquiterp.
Unknown (m/z = 93, 108 (66), 109 (51), 91 (48), 107 (38)... 218 (21))	38.80	1674	3.28	3.21	2124	39.17	Oxygenated sesquiterp.
Unknown (m/z = 109, 236 (87), 193 (69), 123 (69), 41 (67), 207 (55), 55 (52), 91 (51))	40.40	1717	0.54				Sesquiterp. alcohol
Eremophilone	41.19	1742	36.04	36.53	2192	41.09	Sesquiterp. ketone
8-Hydroxydihydroeremophilone	41.59	1755	11.58	11.66	2271	43.09	Sesquiterp. alcohol
8-Hydroxy-1,11-eremophiladien-9-one	41.70	1758	0.87	0.74	2292	43.57	Sesquiterp. alcohol
Unknown (m/z = 137, 234 (78), 191 (74), 109 (64), 163 (58), 41 (55), 91 (53))	41.88	1764	2.03				Sesquiterp. alcohol

Unknown (m/z = 234, 217 (46), 41 (27), 67 (26), 205 (23))	42.61	1787	1.49				Sesquiterp. alcohol
Unknown (m/z = 218, 161 (92), 147 (84), 191 (70), 234 (66), 91 (63))	42.89	1796	0.51				Sesquiterp. alcohol
2-Hydroxyeremophilone	44.23	1844	26.58	28.58	2338	44.61	Sesquiterp. alcohol
Unknown (m/z = 232, 91 (31), 217 (29), 77 (22), 231 (21), 215 (21))	44.40	1850	0.85	0.87	2370	45.31	Sesquiterp. alcohol
9-Hydroxy-1,7(11),9-eremophilatrien-8-one	45.20	1879	7.08	7.39	2460	47.18	Sesquiterp. alcohol
Total identified			**84.20%**	**86.94%**			

*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not taken account in the identified total

Note: no correction factor was applied

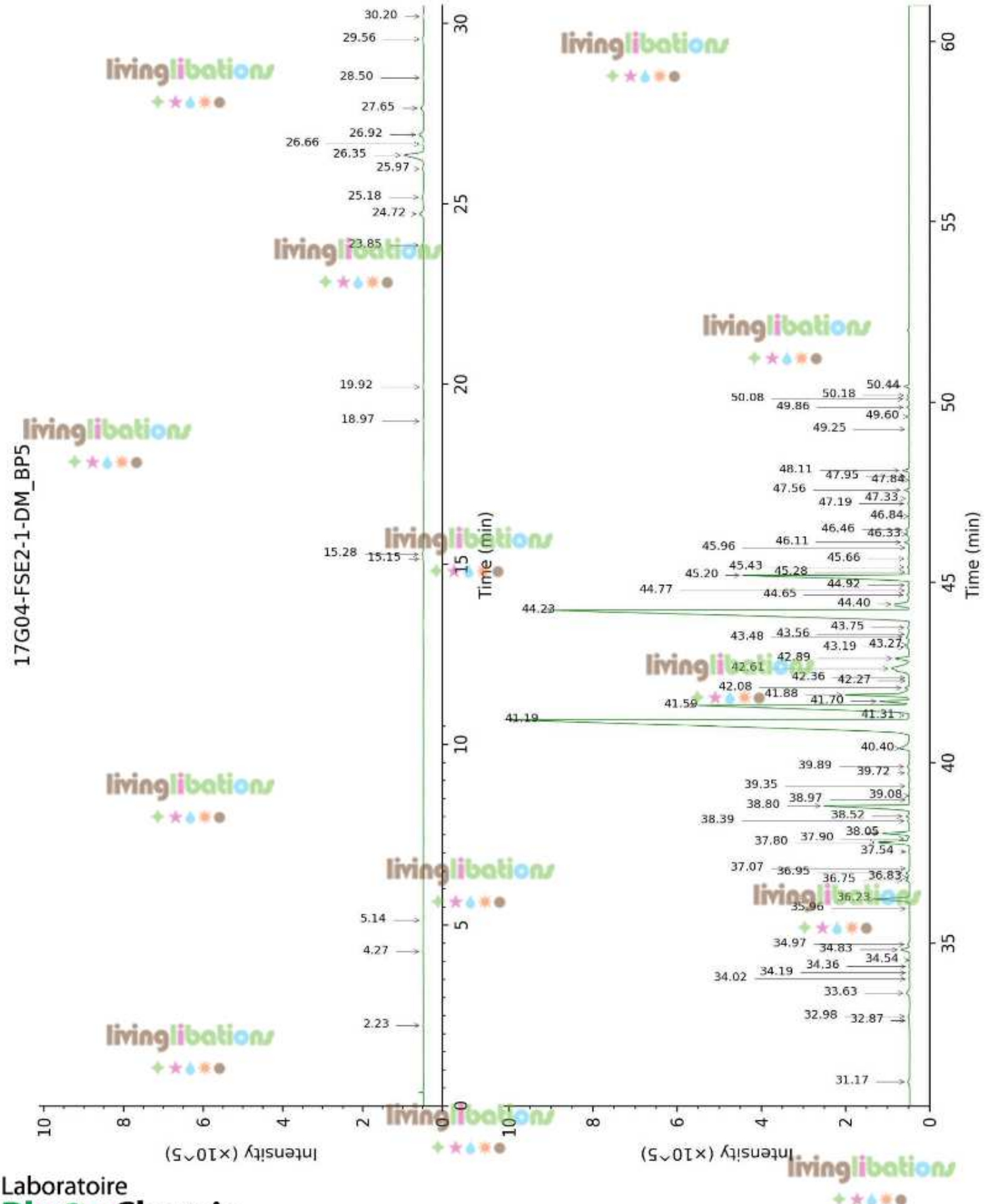
OTHER DATA

Physical aspect : Bright red liquid

Refractive index : 1.5340 ± 0.0003 (20 °C)

CONCLUSION

No adulterant, contaminant or diluent were detected using this method.



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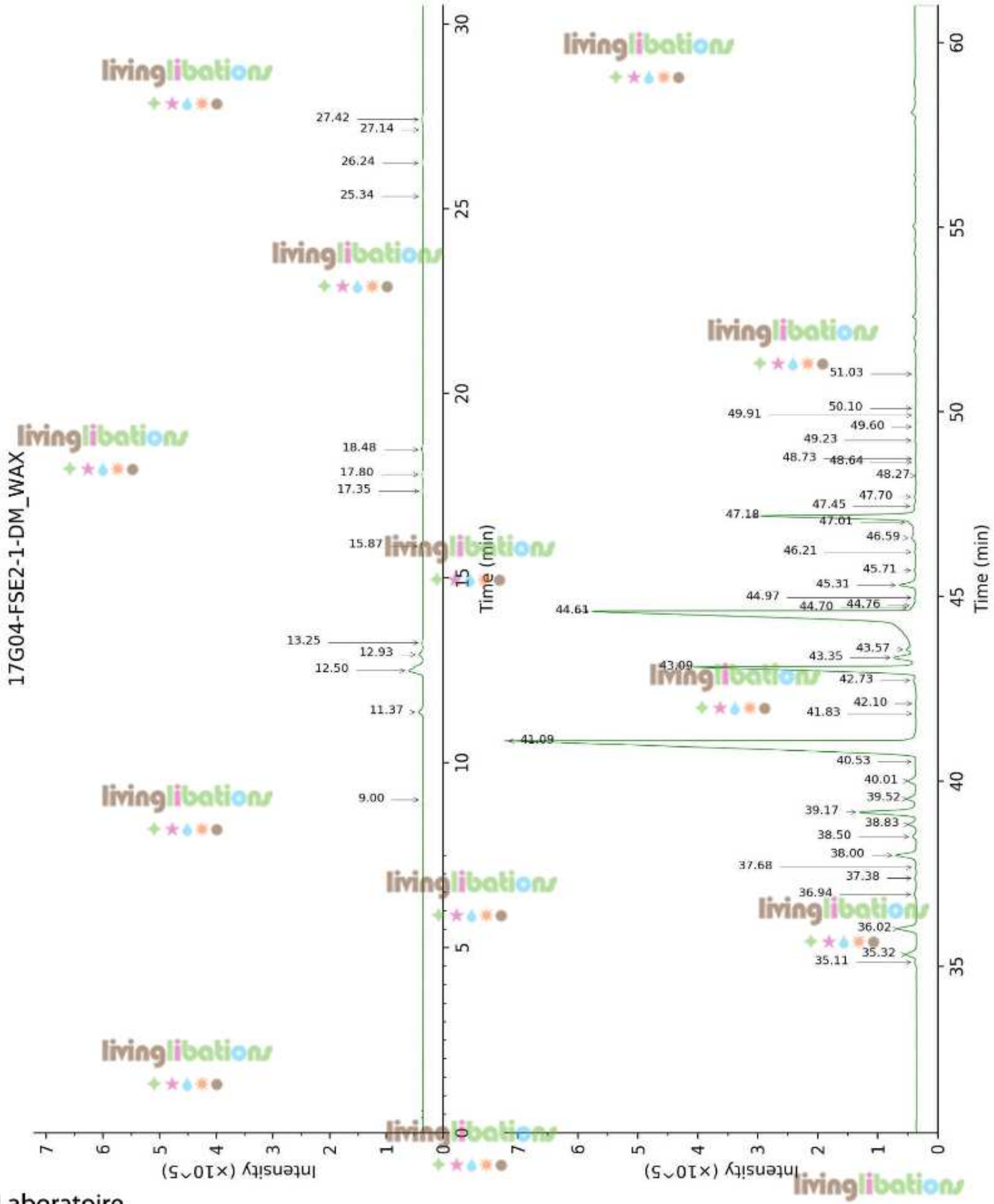
Plus que des analyses... des conseils


17G04-FSE2-1-DM_WAX
Time (min)
Intensity (×10^5)
27.42
27.14
26.24
25.34
18.48
17.80
17.35
15.87
13.25
12.93
12.50
11.37
9.00
51.03
50.10
49.91
49.60
49.23
48.73
48.64
48.27
47.70
47.45
47.18
47.01
46.59
46.21
45.71
45.31
44.97
44.70
44.76
44.61
43.57
43.35
43.09
42.73
42.10
41.83
41.09
40.53
40.01
39.52
39.17
38.83
38.50
38.00
37.68
37.38
36.94
36.02
35.32
35.11