ANALYSIS Myrtle, Lemon Essential Oil

Laboratoire PhytoChemia









Date: June 15, 2017

SAMPLE IDENTIFICATION

Internal code: 17F08-FSE5-1-DM

Customer Identification: Lemon Myrtle - Lot #EA-201016

Type: Essential oil

Source: Backhausia citriodora

Customer: Flowers Shining Everywhere Inc.

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ANALYSIS

Method: PC-PA-001-15E06, "Analysis of the composition of a liquid essential oil by GC-FID" (in French).

Identifications double-checked by GC-MS
Analyst: Sylvain Mercler, M. Sc., chimiste

Analysis date: 2017-06-13

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Checked and approved by :

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Alexis St-Gelais, M. Sc., chimisto 2013-374

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IDENTIFIED COMPOUNDS

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Identification	Column: BP5			Column: WAX			1000000
	R.T.	RL	96	96	RJ.	R.T.	Molecular Class
2-Methyl-3-buten-2-ol	0.35	632	0.04	0.02	953	1.12	Aliphatic alcohol
Ethanol	0.37	635	0.04	0.03	768	0.64	Aliphatic alcohol
Methyl 2-methylbutyrate	1.41	771	0.04	0.03	909	0.94	Alliphatic ester
cis-Hex-3-en-1-ol	2.45	863	0.15	0.14	1316	5.14	Aliphatic alcohol
trans-Hex-2-en-1-ol	2.66	879	0.01	0.02	1350	5.67	Aliphatic alcohol
Hexanol Liv	1999	08820	0.04	0.04	1292	4.79	Aliphatic alcohol
Myrcene	4.47	991	0.53	0.21	1110	2.32	Monoterpene
Dehydro-1,8-cineole	4.47*	991	[0.53]	0.30	1123	2,49	Monoterp, ether
6-Methyl-5-hepten-2-one	4.53	995	1.75	1.72	1270	4.47	All phatic ketone
6-Methyl-5-hepten-2-ol	4.71	1005	0.21	0.13	1410	6.61	Aliphatic alcohol
para-Cymene	5.12	1028	0.01	0.01	1200	3,48	Monoterpene
Limonene	5.16	1030	0.01	0.01	1134	2.63	Monoterpene
Oprans-B-Ocimene	5.52	1050	0.04	0.03	1194	3.40	Monoterpene
+ cis-Linalool oxide (fur.)	5.98	1075	0.04	0.03	1368	5.95	Monoterp, alcohol
Terpinolene	6.18	1085	0.01	10.0	1216	3.69	Monoterpene
trans-Linalool oxide (fur.)	6.30	1092	0.02	0.03	1396	6.38	Monoterp, alcohol
para-Cymenene	6.39	10971	9 0.06	0.04	1360	5,83	Monoterpene
Rose furan	6.46	1101	0.01	0.01	1336	5.46	Monoterp, ether
Linalool	6,64	1107	0.59	0.64	1483	8.25	Monoterp, alcohol
cis-Chrysanthemal?	6.77	1112	0.04				Monoterp. aldehyde
exp-isocitral	7.69	1145	0.28	0.18	1401	6.47	Monoterp, aldehyde
Citronellal	7.84	1151	0.01	0.02	1425	6.8271	Monoterp, aldehyde
trans-Chrysanthemal	7.93	1155	0.15	0.20	1443	7.27	Monoterp, aldehyde
(Z)-isocitral	8.23	1165	1.52	1.33	1468	7.88	Monoterp, aldehyde
Unknown (m/z = 84, 83	8.78	1186	0.30				0.0000000000000000000000000000000000000
(81), 137 (69), 41 (58), 91 (52), 93 (50) 152 (2))							
(E)-isocitral	8.85	1188	2.36	1.88	1495	8.52	Monoterp. aldehyde
a-Terpineol	9.36	1204	0.09	0.09	1619	12.63	Monoterp, alcohol
trans-Isopiperitenal	9.48	1207	90.10	ionr			Monoterp, alcohol
Unknown (m/z = 91, 84	9.70	1212	0.27				livingilooti
(98), 83 (95), 41 (89), 119							*****
(80), 93 (75), 137 (69) 152							
(4))							
Nerol	10.64	1232	1.47	1.41	1724	17.90	Monoterp, alcohol
Cittonble libotion	10.93	1239	0.14	0.12	1700	16.64	Monoterp. alcohol
Neral	11.37	1249	36.17	36.35	1599	11.93	Monoterp, aldehyde
Geraniol	12.03	1263	2.74	2.74	1776	21.13	Monoterp, alcohol
Geranial	13.00	1285	A7:10	47.72	1653	14.23*	Monoterp, aldehyde

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Total identified							
Globulol	34.11	1577	0.05	0.04	1963	33.58	Sesquiterp, alcohol
Caryophyllene oxide	33.71	1571	0.09	0.05	1854	26.34	Sesquiterp, ether
Germacrene B	31.86	1546	0.08	0.07	1715	17.41	Sesquiterpene
δ-Cadinene	29.18	1508	0.03	[47.72]	1653	14.23*	Sesquiterpene
Bicyclogermacrene	26.69	1477	0.14	[47.72]	1653	14.23*	Sesquiterpene
allo-Aromadendrene	23.52	1439	0.06	0.05	1556	10.35	Sesquiterpene
6,9-Guaiadiene	2251	1427	0.04	0.05	1548	10.04	Sesquiterpene
β-Caryophyllene	20.50	1403	0.08	0.08	1514	8.96	Sesquiterpene
Geranic acid	18.84	1378	0.41	0.47	2244	42.82	Monoterp, acid
g-Copaene	17.62	1360	0.02	[0.02]	1425	6.87*	Sesquiterpene
(44), 41 (40), 95 (31))	The same	V2500	5,000				
Unknown (m/z = 82, 59	16.72	1346	0.16	100000000000000000000000000000000000000	1999150	41.63	A CONTROL OF THE PROPERTY OF T
(80), 4) (80), 109 (40) 152 (5) Wing Toolson	16.54	1343	0.09	0.12	2197	Monoterp. acid	
Unknown (m/z = 43, 69	14.34	1310	0.28	10	ivian!	Ibalio	N.F

Two or more compounds are coeluting on this column

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

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Note: no correction factor was applied

OTHER DATA

Physical aspect: Light yellow liquid Refractive index: 1.4835 ± 0.0003 (20 °C)

CONCLUSION

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

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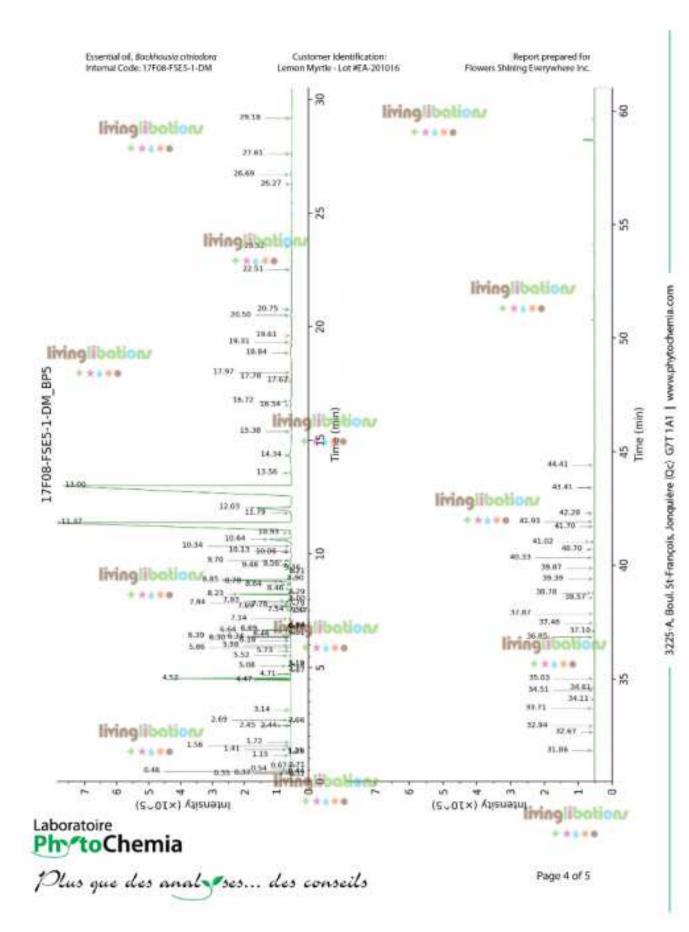
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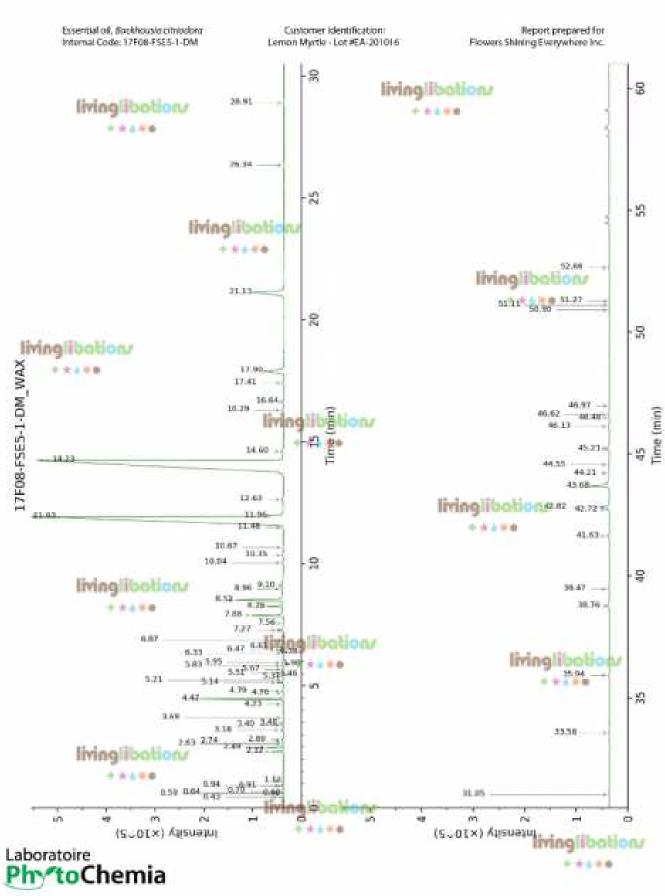
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Plus que des analyses... des conseils

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