ANALYSIS Cypress Wood White Essential Oil

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Date: August 9, 2017

SAMPLE IDENTIFICATION

Internal code: 17G28-F5E16-1-CC

Customer Identification: White Cypress Wood - Autralia - 9346754001001

Type: Essential oil

Source: Callitris glaucophylla

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: Alexis St-Gelais, M. Sc., chimiste

Analysis date: 2017-08-02

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Checked and approved by:

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

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IDENTIFIED COMPOUNDS

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Identification	Column: BP5			Column: WAX *			40.00
	R.T.	R.I.	96	96	RJ.	R.T.	Molecular Class
Furfural	2.23	846	0.02	0.02	1409	6.34	Furan
Tricyclene	3.25	919	0.03	0.03	922	0.92	Monoterpene
a-Pinene	3.44	930	1.15	1.16	944	1.01	Monoterpene
Camphene	3.73	948	0.04	0.03	997	1.25	Monoterpene
Thuja-2,4(10)-diene	3.82	953	0.05	0.04	1052	1.68	Monoterpene
β-Pinene	0493	077	0.06	0.04	1039	1.56	Monoterpene
6-Methyl-5-hepten-2-one	4.58	998	3.72	3.61	1271	4.28	Aliphatic ketone
Δ3-Carene	4.78	1009	0.13	0.03	1081	1.99	Monoterpene
2,6-Dimethyl-6-hepten-2-ol	5.12	1028	0.03				Allphatic alcohol
para-Cymene	5.16	1030	0.03	0.03	1203	3.35	Monoterpenos
Limonene	5.20	1032	0.07	0.05	1139	2.54	Monoterpene
β-Phellandrene	5.23	1034	0.05	0.07	1144	2.60	Monoterpene
1,6-Cincole	5.26	1035	0.11	0.10	1143	2.58	Monoterp, ether
PIMA 4	6.04	1078	0.02	0.01	1450	7.04	Monoterp. alcohol
para-Cymenene	6.45	1100	0.05	0.03	1365	5.65	Monoterpene
Linalool	6.73	1110	0.11	0.14	1486	7.87	Monoterp, alcohol
6-Methyl-3,5-heptanedien-	6.89	thrise	0.05	lon			Aliphatic ketone
2-one	0.370005.44						and to present the contract of
a-Campholenal	7.19	1127	0.02				Monoterp, aldehyde
trans-Pinocarveol	7.65	1144	0.19	0.17	1562	9.87	Monoterp, alcohol
Pinocamphone	8.18	1163	0.04	0.04	1425	6.58	Monoterp, ketone
Borneol	8.68	1182	0.08	0.24	1608	1135	Monoterp alcohol
Myrtenal	9.37	1204	0.04	0.10	1523	8.74	Monoterp, aldehyde
a-Terpineol	9.52	1208	0.15	1.44	1621	12,00*	Monoterp, alcohol
Verbenone	9.87*	1215	0.18	0.05	1612	11.66	Monoterp. ketone
Mystenol	9.87*	1215	[0.18]	0.10	1697	15.45	Monoterp, alcohol
Citronellor	10.88	1238	0.15	0.33	1703	15.70	Monoterp, alcohol
Methyl citronellate	11.98	1262	0.15	0.14	1502	8.23	Monoterp. ester
Methyl geranate	15.55	1328	1.37	[1.44]	1621	12.00*	Monoterp, ester
Citronellic acid	20.62	1404	924.14	25,40	2175	40.32	Monoterp, acid
a-Gualene	22.23	1424	0.60 4	0.94	1529	8.88	Sesquiterpene
Geranic acid	22.55*	1427	6.29	2.44	2248	42.16	Monoterp, acid
Eldanolide	22.55*	1427	[6.29]	200000			Monoterp, lactone
a-Humulene	22.80	1430	0.11	0.13	1585	10.69	Sesquiterpene
4,5-diepi-Aristolochene	23.53	1439	0.12	0.19	1592	10.91	Sesquiterpene
Sellna 4.14 diene	25.22*	1460	2.05				Sesquiterpene
Methyl (2E,4E)-3.7- dimethyl-2.4,6-triencate	25.22"	1460	[2.05]				Monoterp. ester
B-Selinene	26.46	1424	2.80	1.2.71	1634	12.44	Sesquiterpene
Eudesma- 2.4(15),11-triene	26.81	1479	1.89	1.30	1656		Sesquiterpene
g-Sellnene	27.10	1482	2,39	2.62	1643		Sesquitenpend

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27.70

32.86

1489

1560

δ-Guaiene

a-Elemol

[2.62]

0.36

1643

2000

12.79*

34.09

0.25

0.48

Sesquitemene Sesquiterp, alcohol

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

Note: no correction factor was applied

OTHER DATA

Physical aspect a Faintly yellow liquid Refractive index: 1.4868 ± 0.0003 (20 °C)

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CONCLUSION

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

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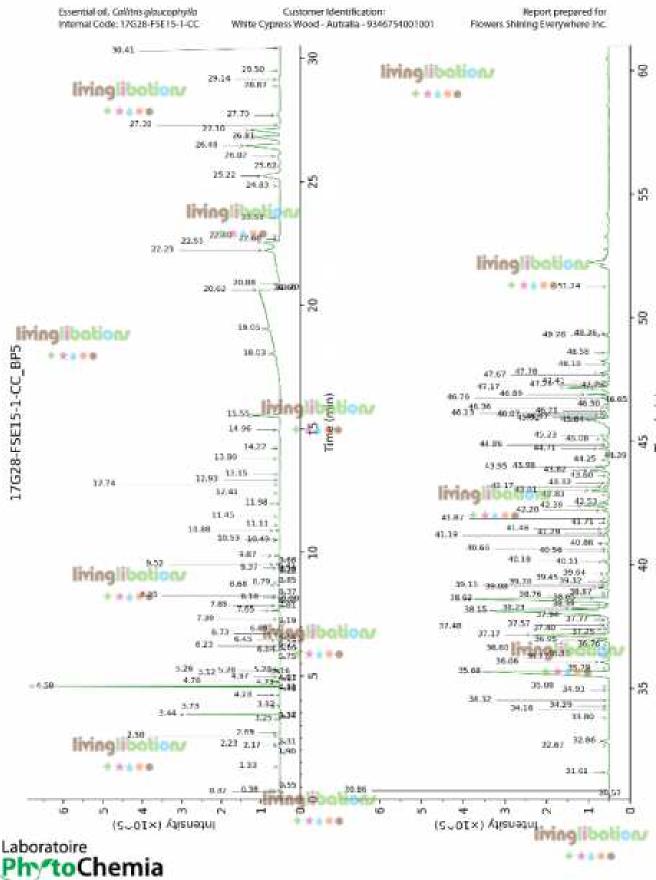
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^{*:} Two or more compounds are coeluting on this column

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