



GC/MS BATCH NUMBER: P20105

ESSENTIAL OIL: PATCHOILI
BOTANICAL NAME: PAGOSTEMON CABLIN
ORIGIN: INDONESIA

KEY CONSTITUENTS PRESENT IN THIS BATCH OF PATCHOULI OIL	%
PATCHOULOL	30.8
δ -GUAIENE	18.4
α -GUAIENE	13.2
SEYCHELLENE	6.5
α -PATCHOULENE	5.4
β -CARYOPHYLLENE	3.1
ACIPHYLLENE	2.8
β -PATCHOULENE + α -COPAENE	2.2
POGOSTOL	2.2

Comments from Robert Tisserand: Superior green, "damp earth" odor quality. All 7 key ISO constituents are within range.

Date : June 28, 2017

SAMPLE IDENTIFICATION

Internal code : 17F28-PTH4-1-DM

Customer identification : Patchouli Dark - Indonesia - P2010568R

Type : Essential oil

Source : *Pogostemon cablin*

Customer : Plant Therapy

ANALYSIS

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

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

Analysis date : 2017-06-28

Checked and approved by :



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

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IDENTIFIED COMPOUNDS

Identification	Column: BP5			Column: WAX			Molecular Class
	R.T.	R.I.	%	%	R.I.	R.T.	
α-Pinene	3.44	930	0.08	0.07	946	1.03	Monoterpene
β-Pinene	4.22	976	0.19	0.17	1043	1.61	Monoterpene
Limonene	5.19	1031	0.02	0.02	1141	2.61	Monoterpene
δ-Elemene	15.37	1326	0.10	2.38	1425	6.68*	Sesquiterpene
β-Patchoulene	18.09*	1367	2.24	[2.38]	1425	6.68*	Sesquiterpene
α-Copaene	18.09*	1367	[2.24]	[2.38]	1425	6.68*	Sesquiterpene
β-Elemene	19.02	1381	0.96	14.43	1540	9.32*	Sesquiterpene
Cycloseychellene	20.07	1397	0.58	0.57	1482	7.96	Sesquiterpene
β-Caryophyllene	20.73	1406	3.11	2.78	1527	8.99	Sesquiterpene
α-Guaiene	22.49	1427	13.24	[14.43]	1540	9.32*	Sesquiterpene
Seychellene	22.79	1430	6.49	12.82	1556	9.93*	Sesquiterpene
α-Patchoulene	23.70	1441	5.42	[12.82]	1556	9.93*	Sesquiterpene
α-Humulene	23.88*	1443	1.64	0.49	1586	11.00	Sesquiterpene
γ-Patchoulene	23.88*	1443	[1.64]	[12.82]	1556	9.93*	Sesquiterpene
δ-Patchoulene	24.08	1446	0.94	0.95	1565	10.24	Sesquiterpene
γ-Gurjunene	24.44	1450	0.35				Sesquiterpene
Unknown (m/z = 147, 93 (94), 91 (76), 107 (71), 105 (69), 79 (60)... 189 (24), 204 (23))	25.40	1462	0.41				Sesquiterpene
β-Selinene	26.31	1473	0.11	0.13	1619	12.24	Sesquiterpene
δ-Selinene	26.50	1475	0.45				Sesquiterpene
α-Selinene	26.57	1476	0.18	2.91	1630	12.60*	Sesquiterpene
Aciphyllene	27.26	1484	2.80	[2.91]	1630	12.60*	Sesquiterpene
δ-Guaiene	28.00	1493	18.40	18.45	1649	13.37	Sesquiterpene
Nootkatene	28.09	1494	0.36	0.50	1699	15.95	Sesquiterpene
7-epi-α-Selinene	28.87	1504	0.58	0.54	1670	14.48	Sesquiterpene
δ-Cadinene	29.24	1509	0.09	0.10	1676	14.80	Sesquiterpene
Selina-3,7(11)-diene	30.38	1525	0.11	0.07	1681	15.07	Sesquiterpene
Norpatchoulenol	33.08	1563	0.52	0.55	1969	33.18	Norsesquiterp. alcohol
Spathulenol	33.60	1570	0.40	0.35	2022	35.54	Sesquiterp. alcohol
Caryophyllene oxide	33.85	1573	0.56	0.41	1853	25.30	Sesquiterp. ether
τ-Cadinol	37.30	1637	0.27	0.40	2078	37.74	Sesquiterp. alcohol
Patchoulol	38.37*	1664	32.77	30.78	2044	36.48	Sesquiterp. alcohol
Pogostol	38.37*	1664	[32.77]	2.19	2103	38.51	Sesquiterp. alcohol
Patchoulenone	39.82	1699	0.20	0.05	2335	44.52	Sesquiterp. ketone
Pogostone	40.73	1728	0.79	0.94	2397	45.88	Polyketone
(2E,6E)-Farnesol	40.92	1734	0.31	0.34	2283	43.35	Sesquiterp. alcohol
Total identified			94.26%	93.39%			

*: 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

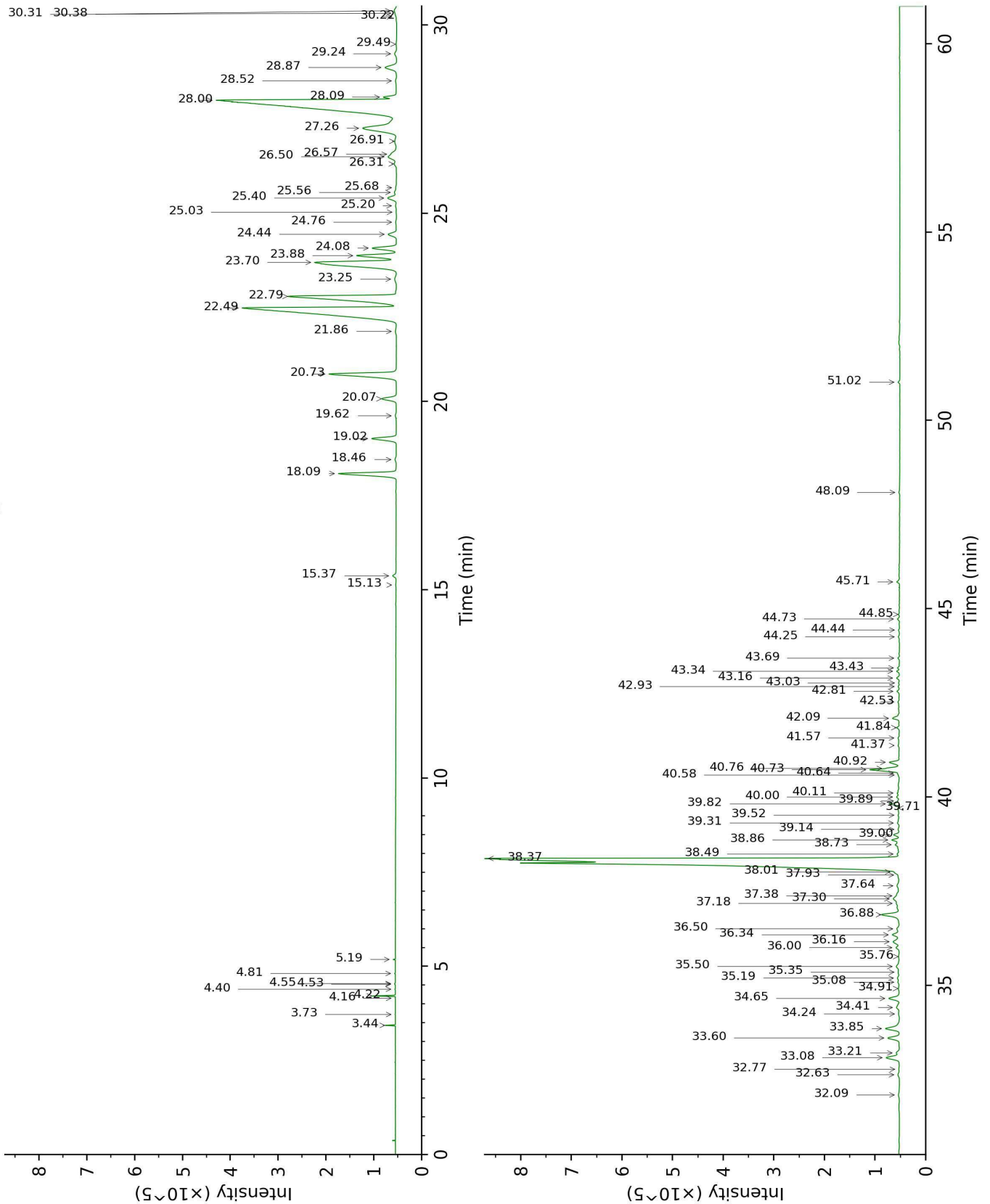
Physical aspect : Red orange liquid

Refractive index : 1.5083 ± 0.0003 (20 °C)

CONCLUSION

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

17F28-PTH4-1-DM_BP5



17F28-PTH4-1-DM_WAX

