



## GC/MS BATCH NUMBER: H80100

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**ESSENTIAL OIL:** HO WOOD

**BOTANICAL NAME:** CINNAMOMUM CAMPHORA

**ORIGIN:** CHINA

KEY CONSTITUENTS PRESENT IN THIS BATCH OF HO WOOD OIL	%
LINALOOL	98.2

Comments from Robert Tisserand: The odor quality is very good, and the lab report shows a typical ho wood oil.

**Date :** July 28, 2016

*SAMPLE IDENTIFICATION*

**Internal code :** 16G19-PTH4-1-SM

**Customer identification :** Ho Wood - China - H8010062R

**Type :** Essential oil

**Source :** *Cinnamomum camphora*

**Customer :** Plant Therapy

*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 :** 2016-07-28

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.	
$\alpha$ -Thujene	3.24	922	0.01	tr	952	0.91	Monoterpene
Sabinene	4.05	972	0.02	0.01	1055	1.53	Monoterpene
Myrcene	4.40	992	0.10	0.09	1113	2.03	Monoterpene
$\alpha$ -Phellandrene	4.66	1008	0.01	0.01	1108	1.96	Monoterpene
$\alpha$ -Terpinene	4.85	1018	0.03	0.02	1120	2.10	Monoterpene
para-Cymene	5.04	1029	0.02	0.03	1207	3.11	Monoterpene
Limonene	5.07	1031	0.06	0.05	1138	2.31	Monoterpene
1,8-Cineole	5.10	1032	0.02	0.01	1144	2.38	Monoterp. ether
<i>cis</i> - $\beta$ -Ocimene	5.26	1041	0.04	0.06	1186	2.87*	Monoterpene
<i>trans</i> - $\beta$ -Ocimene	5.44	1051	0.10	0.11	1201	3.05	Monoterpene
$\gamma$ -Terpinene	5.62	1061	0.03	[0.06]	1186	2.87*	Monoterpene
<i>cis</i> -Linalool oxide (fur.)	5.93	1078	0.11	0.09	1377	5.52	Monoterp. alcohol
<i>cis</i> -Sabinene hydrate	5.99	1081	0.02	0.02	1413	6.04	Monoterp. alcohol
Terpinolene	6.09	1087	0.02	0.04	1223	3.33	Monoterpene
<i>trans</i> -Linalool oxide (fur.)	6.24	1096	0.39	0.36	1406	5.93	Monoterp. alcohol
Linalool	6.88	1121	98.16	98.25	1507	7.84	Monoterp. alcohol
endo-Fenchol	7.14	1131	0.27	0.26	1518	8.09	Monoterp. alcohol
Camphor	7.69	1152	0.05	0.05	1422	6.22	Monoterp. ketone
<b>Total identified</b>			<b>99.46%</b>	<b>99.46%</b>			

\*: 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 :** Clear liquid

**Refractive index :** 1.4610  $\pm$  0.0003 (20 °C)

*CONCLUSION*

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



