



GC/MS BATCH NUMBER: E30103

ESSENTIAL OIL: EUCALYPTUS GLOBULUS ORGANIC

BOTANICAL NAME: EUCALYPTUS GLOBULUS

ORIGIN: CHINA

KEY CONSTITUENTS PRESENT IN THIS BATCH OF EUCALYPTUS GLOBULUS OIL	%
1,8-CINEOLE	83.0*
α -PINENE	5.0
LIMONENE	4.7*
p-CYMENE	3.1
α -PHELLANDRENE	1.1
α -TERPINEOL	0.7
β -PINENE	0.6
CAMPHENE	0.04

* Estimated

Comments from Robert Tisserand: Smells like a good quality, genuine Eucalyptus globulus oil. Conforms to the 8 key ISO constituents for Australian type Eucalyptus globulus 80/85%.

Date : May 18, 2016

SAMPLE IDENTIFICATION

Internal code : 16E02-PTH1-1-SM

Customer identification : Eucalyptus globulus organic - China - E3010362

Type : Essential oil

Source : *Eucalyptus globulus*

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 : 2016-05-18

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.	
Hashishene	3.13	916	0.01	4.89	956	0.93*	Monoterpene
α-Thujene	3.23	922	0.03	[4.89]	956	0.93*	Monoterpene
α-Pinene	3.34	929	5.03	[4.89]	956	0.93*	Monoterpene
α-Fenchene	3.60	944	0.01	0.01	1001	1.11	Monoterpene
Camphene	3.62	945	0.04	0.03	1008	1.16	Monoterpene
β-Pinene	4.10	975	0.58	0.54	1046	1.46	Monoterpene
Myrcene	4.38	992	0.98	1.14	1121	2.11	Monoterpene
α-Phellandrene	4.65	1007	1.09	0.81	1116	2.05	Monoterpene
α-Terpinene	4.84	1018	0.18	0.16	1128	2.20	Monoterpene
para-Cymene	5.24*	1040	90.20	3.10	1217	3.24	Monoterpene
Limonene	5.24*	1040	[90.20]	87.67	1165	2.62*	Monoterpene
1,8-Cineole	5.24*	1040	[90.20]	[87.67]	1165	2.62*	Monoterp. ether
cis-β-Ocimene	5.26	1041	0.05	0.07	1193	2.95	Monoterpene
γ-Terpinene	5.61	1061	0.46	0.47	1197	3.00	Monoterpene
Linalool	6.52	1108	0.05	0.04	1502	7.74	Monoterp. alcohol
trans-Pinocarveol	7.39	1140	0.07	0.06	1573	9.75	Monoterp. alcohol
Terpinen-4-ol	8.54	1183	0.31	0.28	1535	8.60	Monoterp. alcohol
α-Terpineol	9.14	1205	0.67	0.65	1631	11.73	Monoterp. alcohol
Total identified			99.76%	99.92%			

*: 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 : 1.4603 ± 0.0003 (20 °C)

CONCLUSION

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



