



PLANT THERAPY
100% PURE ESSENTIAL OILS

GC/MS BATCH NUMBER: E30107

ESSENTIAL OIL: EUCALYPTUS GLOBULUS ORGANIC

BOTANICAL NAME: EUCALYPTUS GLOBULUS

ORIGIN: CHINA

KEY CONSTITUENTS PRESENT IN THIS BATCH OF EUCALYPTUS GLOBULUS ORGANIC. OIL	%
1,8-CINEOLE + LIMONENE	87.26
p-CYMENE	4.76
α-PINENE	3.99
γ-TERPINENE	1.76

Comments from Robert Tisserand: Typical sharp, green odor of high cineole, Eucalyptus globulus. Meets 5 of 6 ISO standards, with p-cymene slightly high - not a concern.

Date : February 7, 2017

SAMPLE IDENTIFICATION

Internal code : 17B06-PTH12-1-DM

Customer identification : Organic Eucalyptus Organic - E30107R

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 : 2017-02-07

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	3.19	915	0.01	3.70	956	1.24*	Monoterpene
α-Thujene	3.30	922	0.01	0.04	965	1.28	Monoterpene
α-Pinene	3.40	928	3.99	[3.70]	956	1.24*	Monoterpene
α-Fenchene	3.66	943	0.01	0.01	993	1.48	Monoterpene
Camphene	3.68	945	0.03	0.03	1000	1.54	Monoterpene
Thuja-2,4(10)-diene	3.77	950	0.01	0.01	1061	2.09	Monoterpene
β-Pinene	4.17	973	0.21	0.20	1043	1.91	Monoterpene
Myrcene	4.45	990	0.44	0.41	1119	2.68	Monoterpene
α-Phellandrene	4.72	1006	0.75	0.66	1112	2.60	Monoterpene
α-Terpinene	4.91	1016	0.16	0.15	1126	2.78	Monoterpene
1,8-Cineole	5.30*	1037	91.69	87.26	1161	3.25*	Monoterp. ether
para-Cymene	5.30*	1037	[91.69]	4.76	1213	3.98	Monoterpene
Limonene	5.30*	1037	[91.69]	[87.26]	1161	3.25*	Monoterpene
trans-β-Ocimene	5.49	1048	0.23	0.22	1205	3.85	Monoterpene
γ-Terpinene	5.68	1058	1.76	1.79	1193	3.68	Monoterpene
Terpinolene	6.11	1082	0.02	0.02	1223	4.12	Monoterpene
para-Cymenene	6.32	1093	0.01	0.01	1368	6.38	Monoterpene
trans-Pinocarveol	7.44	1136	0.15	0.14	1569	12.07	Monoterp. alcohol
Pinocarvone	8.10	1161	0.05	0.04	1475	8.79	Monoterp. ketone
α-Terpineol	9.20	1201	0.04	0.03	1622	14.44	Monoterp. alcohol
α-Terpinyl acetate	16.39	1341	0.07	0.06	1613	13.99	Monoterp. ester
Aromadendrene	21.63	1416	0.09	0.09	1523	10.33	Sesquiterpene
allo-Aromadendrene	23.26	1436	0.03	0.02	1555	11.53	Sesquiterpene
Globulol	33.76	1572	0.05	0.05	1965	35.71	Sesquiterp. alcohol
Total identified			99.81%	99.70%			

*: 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 : 1.4600 ± 0.0003 (20 °C)

CONCLUSION

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



