



GC/MS BATCH NUMBER: R20102

ESSENTIAL OIL: ROSALINA
BOTANICAL NAME: MELALEUCA ERICFOLIA
ORIGIN: AUSTRALIA

KEY CONSTITUENTS PRESENT IN THIS BATCH OF ROSALINA OIL	%
Linalool	47.43
Limonene	20.41
1,8-Cineole	13.00
α -Pinene	11.74
Terpinen-4-ol	4.87
γ -Terpinene	2.83

Comments from Robert Tisserand: Clean, eucalyptus-floral odor quality. Constituents are in expected amounts.

Date : December 14, 2016

SAMPLE IDENTIFICATION

Internal code : 16L01-PTH6-1-DM

Customer identification : Rosalina - R2010269R

Type : Essential oil

Source : *Melaleuca ericifolia*

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 : 2016-12-13

Checked and approved by :



Sylvain Mercier, M. Sc., chimiste 2014-005

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IDENTIFIED COMPOUNDS

Identification	Column: BP5			Column: WAX			Molecular Class
	R.T.	R.I.	%	%	R.I.	R.T.	
Tricyclene	3.19	914	0.03	0.02	932	0.81	Monoterpene
α -Thujene	3.27	919	0.08	11.78	955	0.90*	Monoterpene
α -Pinene	3.40	927	11.74	[11.78]	955	0.90*	Monoterpene
Camphene	3.67*	943	0.19	0.24	1003	1.10	Monoterpene
α -Fenchene	3.67*	943	[0.19]	0.04	991	1.05	Monoterpene
β -Pinene	4.16	973	0.34	0.31	1042	1.39	Monoterpene
Myrcene	4.44	990	0.19	0.21	1116	2.00	Monoterpene
α -Phellandrene	4.71	1006	0.16	0.10	1112	1.95	Monoterpene
α -Terpinene	4.91	1017	0.89	0.86	1126	2.11	Monoterpene
Limonene	5.19*	1032	16.58	20.41	1148	2.37	Monoterpene
para-Cymene	5.19*	1032	[16.58]	0.86	1207	3.05*	Monoterpene
1,8-Cineole	5.23	1035	13.00	8.65	1151	2.41	Monoterp. ether
cis- β -Ocimene	5.32	1040	0.05	2.73	1192	2.88*	Monoterpene
trans- β -Ocimene	5.50	1049	0.02	[0.86]	1207	3.05*	Monoterpene
γ -Terpinene	5.70	1060	2.83	[2.73]	1192	2.88*	Monoterpene
cis-Linalool oxide (fur.)	5.98	1075	0.01	0.01	1371	5.33	Monoterp. alcohol
Terpinolene	6.16	1085	0.37	0.36	1226	3.30	Monoterpene
trans-Linalool oxide (fur.)	6.30	1093	0.01	0.01	1398	5.73	Monoterp. alcohol
para-Cymenene	6.39	1097	0.01	0.01	1365	5.25	Monoterpene
Linalool	6.89	1116	47.43	47.71	1493	7.42	Monoterp. alcohol
cis-para-Menth-2-en-1-ol	7.16	1126	0.04	0.23	1497	7.50	Monoterp. alcohol
Plinol isomer	7.39	1134	0.05	4.73	1527	8.12*	Monoterp. alcohol
Terpinen-4-ol	8.85	1189	4.87	[4.73]	1527	8.12*	Monoterp. alcohol
α -Terpineol	9.49	1206	0.37	0.34	1619	10.87	Monoterp. alcohol
α -Gurjunene	19.49	1387	0.03	0.02	1447	6.54	Sesquiterpene
β -Caryophyllene	20.43	1400	0.03	0.05	1515	7.84	Sesquiterpene
Aromadendrene	21.81	1417	0.07	[4.73]	1527	8.12*	Sesquiterpene
allo-Aromadendrene	23.46	1437	0.04	0.07	1548	8.76	Sesquiterpene
trans-Cadina-1(6),4-diene	24.88	1454	0.02	0.03	1576	9.59	Sesquiterpene
Viridiflorene	26.68	1475	0.06	0.05	1631	11.31	Sesquiterpene
δ -Cadinene	29.18	1507	0.10	0.07	1687	13.73	Sesquiterpene
Globulol	34.33	1577	0.03				Sesquiterp. alcohol
Viridiflorol	34.83	1584	0.02				Sesquiterp. alcohol
Total identified			99.66%	99.90%			

*: 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 : 1.4635 ± 0.0003 (20 °C)

CONCLUSION

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



