



GC/MS BATCH NUMBER: W10103

ESSENTIAL OIL: WINTERGREEN

BOTANICAL NAME: GAULTHERIA PROCUMBENS

ORIGIN: CHINA

KEY CONSTITUENTS PRESENT IN THIS BATCH OF WINTERGREEN OIL	%
Methyl salicylate	99.53

Comments from Robert Tisserand: Characteristic fresh, green-minty odor quality. All six key ISO constituents are within range.

Date : September 11, 2017

SAMPLE IDENTIFICATION

Internal code : 17I06-PTH2-1-DM

Customer identification : Wintergreen - China - W1010375R

Type : Essential oil

Source : *Gaultheria procumbens*

Customer : Plant Therapy

ANALYSIS


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

Identifications double-checked by GC-MS

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

Analysis date : 2017-09-07

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.	
<i>cis</i> -Hex-3-en-1-ol	2.49	864	0.03	0.03	1322	5.62	Aliphatic alcohol
Hexanol	2.73	883	0.01	0.01	1298	5.22	Aliphatic alcohol
α -Pinene	3.42	926	0.01	0.01	940	1.20	Monoterpene
β -Pinene	4.20	972	0.01				Monoterpene
Benzaldehyde	4.23	974	0.01	0.01	1432	7.65	Simple phenolic
Myrcene	4.47	989	tr				Monoterpene
Limonene	5.16	1027	0.02	0.05	1141	3.00*	Monoterpene
β -Phellandrene	5.23	1030	0.02	[0.05]	1141	3.00*	Monoterpene
1,8-Cineole	5.25	1032	0.01	[0.05]	1141	3.00*	Monoterp. ether
Benzyl alcohol	5.68	1055	0.02	0.04	1776	23.61*	Simple phenolic
Terpinolene	6.20	1083	0.01				Monoterpene
Linalool	6.69	1106	0.05	0.07	1494	9.17	Monoterp. alcohol
Borneol	8.53	1173	0.01	0.03	1619	14.14	Monoterp. alcohol
Methyl salicylate	9.76	1210	99.53	99.53	1671	16.91	Phenolic ester
Geraniol	11.87	1256	0.02	[0.04]	1776	23.61*	Monoterp. alcohol
Ethyl salicylate	12.48	1269	0.10	0.09	1700	18.46	Phenolic ester
Eugenol	17.61	1356	0.03	0.03	2057	38.96	Phenylpropanoid
Total identified			99.89%	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 : 1.5340 \pm 0.0003 (20 °C)

CONCLUSION

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

