

Date: January 17, 2022

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

Internal code: 22A03-PTH03

Customer identification: Wintergreen - W10107217R

Type: Essential oil

Source : *Gaultheria procumbens* **Customer :** Plant Therapy

ANALYSIS

Method: PC-MAT-014 SISO - Analysis of the composition of an essential oil or other volatile liquid by

FAST GC-FID (in French); identifications validated by GC-MS.

Analyst: Seydou Ka, Ph. D. **Analysis date:** January 11, 2022

Checked and approved by:

Alexis St-Gelais, Ph. D., Chimiste 2013-174

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PHYSICOCHEMICAL DATA

Physical aspect: Clear liquid

Refractive index: 1.5367 ± 0.0003 (20 °C; method PC-MAT-016)

CONCLUSION

No adulterant, contaminant or diluent has been detected using this method.



ANALYSIS SUMMARY – CONSOLIDATED CONTENTS

New readers of similar reports are encouraged to read table footnotes at least once.

Identification	%	Class
(3 <i>Z</i>)-Hexenol	0.04	Aliphatic alcohol
(2E)-Hexenol	tr	Aliphatic alcohol
Hexanol	0.02	Aliphatic alcohol
α-Pinene	tr	Monoterpene
β-Pinene	tr	Monoterpene
Myrcene	tr	Monoterpene
(3Z)-Hexenyl acetate	tr	Aliphatic ester
Limonene	0.05	Monoterpene
1,8-Cineole	0.01	Monoterpenic ether
Benzyl alcohol	0.01	Simple phenolic
Octanol	0.01	Aliphatic alcohol
Linalool	0.07	Monoterpenic alcohol
Terpinen-4-ol	0.01	Monoterpenic alcohol
Methyl salicylate	99.69	Phenolic ester
Ethyl salicylate	tr	Phenolic ester
Consolidated total	99.91%	

tr: The compound has been detected below 0.005% of total signal.

Note: no correction factor was applied

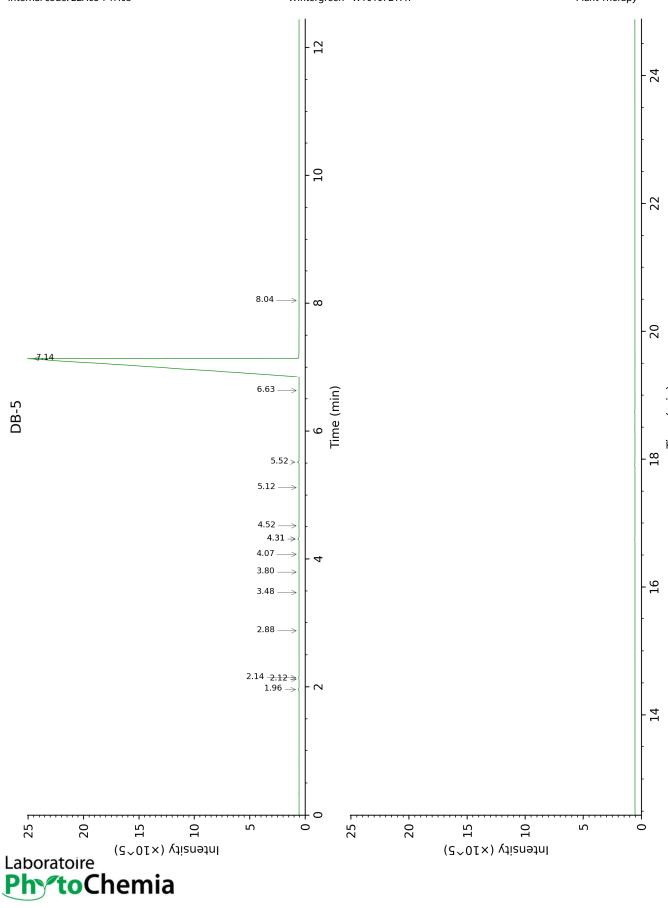
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm is set to prioritize data from the most standard DB-5 column, and smallest values so as to avoid overestimating individual content. This process is semi-automatic. Advanced users are invited to consult the "Full analysis data" table after the chromatograms in this report to access the full untreated data and perform their own calculations if needed.

Unknowns: Unknown compounds' mass spectral data is presented in the "Full analysis data" table. The occurrence of unknown compounds is to be expected in many samples, and does not denote particular problems unless noted otherwise in the conclusion.

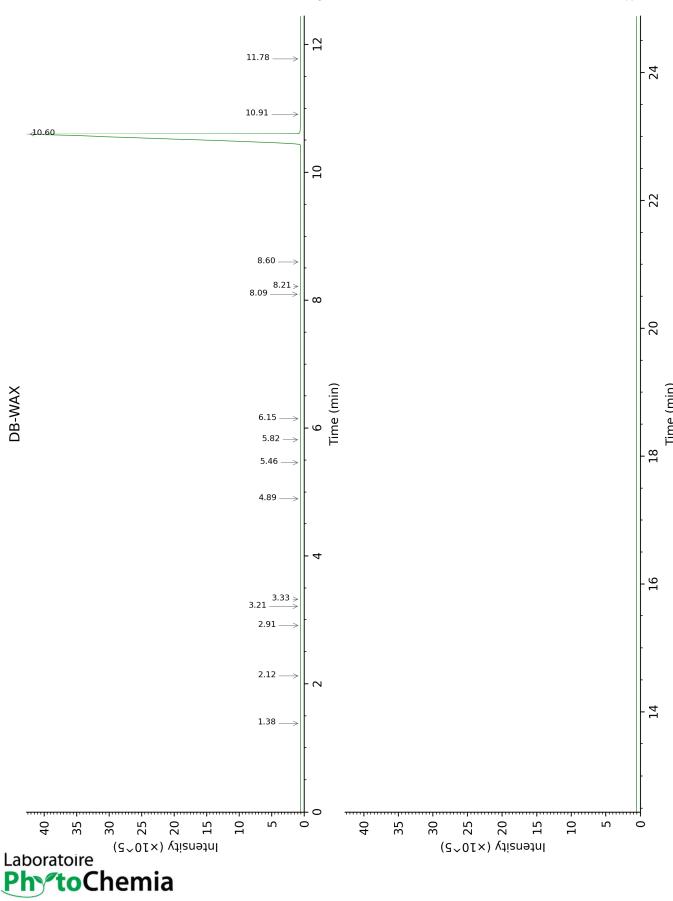


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Plus que des analyses... des conseils



Plus que des analyses... des conseils

FULL ANALYSIS DATA

Identification	Column DB-5			Column DB-WAX		
	R.T	R.I	%	R.T	R.I	%
(3 <i>Z</i>)-Hexenol	1.96	857	0.04	5.82	1348	0.04
(2 <i>E</i>)-Hexenol	2.12	871	tr	6.15	1372	0.01
Hexanol	2.14	874	0.02	5.46	1323	0.02
α-Pinene	2.88	930	tr	1.38	992	tr
β-Pinene	3.48	971	tr	2.12	1066	tr
Myrcene	3.80	993	tr	2.91	1135	tr
(3 <i>Z</i>)-Hexenyl acetate	4.07	1011	tr	4.89	1286	tr
Limonene	4.31*	1026	0.06	3.22	1159	0.05
1,8-Cineole	4.31*	1026	[0.06]	3.33	1168	0.01
Benzyl alcohol	4.52	1039	0.01	11.78	1818	0.02
Octanol	5.12	1077	0.01	8.22	1526	0.01
Linalool	5.52	1102	0.07	8.09	1517	0.07
Terpinen-4-ol	6.63	1174	0.01	8.60	1556	tr
Methyl salicylate	7.14	1207	99.69	10.60	1718	99.56
Ethyl salicylate	8.04	1268	tr	10.91	1744	0.02
Total identified	99.91%		99.83%			
Total reported		99.91%			99.83%	

^{*:} Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not taken into account in the consolidated total tr: The compound has been detected below 0.005% of total signal.

> Note: no correction factor was applied R.T.: Retention time (minutes) R.I.: Retention index

