

Date: August 26, 2022

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

Internal code: 22H12-PTH01

Customer identification: Periploca EO in 10 TEC NAT Chinese silk vine - China - PE2100217R

Type: Essential oil

Source : Periploca sepium **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 : Amélie Simard, Analyste **Analysis date :** August 24, 2022

Checked and approved by:

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

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PHYSICOCHEMICAL DATA

Physical aspect: Light yellow viscous liquid

Refractive index: 1.4557 ± 0.0003 (20 °C; method PC-MAT-016)

CONCLUSION

No adulterant or contaminant has been detected using this method. The oil is carried in triethyl citrate, as per the sample identification.



ANALYSIS SUMMARY – CONSOLIDATED CONTENTS

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

Identification	%	Class		
Salicylaldehyde	0.01	Simple phenolic		
Terpinen-4-ol	0.04	Monoterpenic alcohol		
α-Terpineol	0.05	Monoterpenic alcohol		
2-Hydroxy-para-anisaldehyde	11.47	Simple phenolic		
Peonol	0.30	Simple phenolic		
Methyl 4-methoxysalicylate?	0.06	Phenolic ester		
Pentadecane	0.01	Alkane		
Hexadecane	0.04	Alkane		
Unknown	0.20	Unknown		
Triethyl citrate	86.34	Aliphatic ester		
Heptadecane	0.07	Alkane		
Unknown	0.02	Unknown		
Unknown	0.04	Unknown		
Octadecane	0.04	Alkane		
Nonadecane	0.03	Alkane		
Palmitic acid	0.03	Aliphatic acid		
Ethyl palmitate	0.07	Aliphatic ester		
Oleic acid	0.02	Aliphatic acid		
Ethyl oleate	0.03	Aliphatic ester		
Consolidated total	98.88%			

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

Note: no correction factor was applied

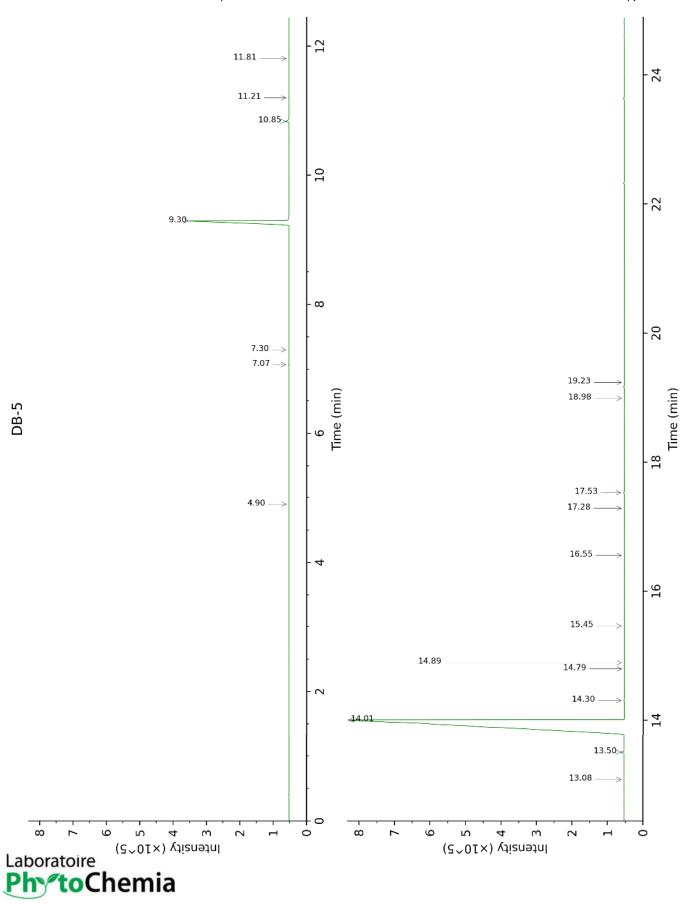
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm 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.

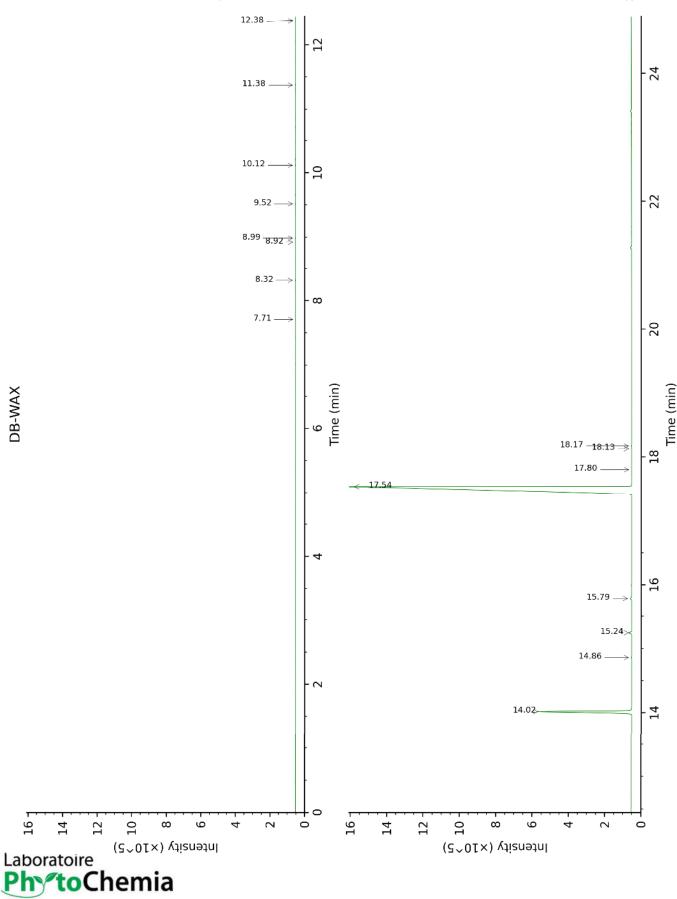
Unknowns: Unknown compounds' mass spectral data is presented in the "Full analysis data" table. The occurrence of unknown compounds is to be expected in many samples, and does not denote particular problems unless noted otherwise in the conclusion.



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Plus que des analyses... des conseils

FULL ANALYSIS DATA

Identification	Column DB-5			Column DB-WAX		
	R.T	R.I	%	R.T	R.I	%
Salicylaldehyde	4.90	1037	0.01	8.99	1604	0.03
Terpinen-4-ol	7.07	1174	0.04	8.32	1551	0.05
α-Terpineol	7.30	1188	0.05	9.52	1648	0.04
2-Hydroxy-para- anisaldehyde	9.30	1322	11.47	14.02	2050	11.76
Peonol	10.84	1432	0.30	15.24	2171	0.33
Methyl 4- methoxysalicylate?	11.20	1459	0.06	14.86	2132	0.06
Pentadecane	11.81	1504	0.01	7.71	1504	0.01
Hexadecane	13.08	1603	0.04	8.92	1599	0.02
Unknown [m/z 112, 139 (62), 212 (42), 213 (41), 167 (36), 84 (36)]	13.50	1638	0.20	15.79	2227	0.19
Triethyl citrate	14.01	1680	86.34	17.54	2415	86.02
Heptadecane	14.30	1704	0.07	10.12	1697	0.06
Unknown [m/z 157, 115 (31), 43 (22), 203 (9), 158 (8), 111 (8), 129 (8), 171 (6) 217 (3)]	14.79	1746	0.02	18.13	2482	0.02
Unknown [m/z 157, 171 (44), 129 (39), 115 (28), 43 (28), 111 (17), 217 (11)]	14.89	1755	0.04	18.17	2486	0.06
Octadecane	15.45	1804	0.04	11.38	1805	0.04
Nonadecane	16.55	1903	0.03	12.38	1895	tr
Palmitic acid	17.28	1972	0.03			
Ethyl palmitate	17.53	1996	0.07			
Oleic acid	18.98	2142	0.02			
Ethyl oleate	19.23	2167	0.03	17.80	2445	0.03
Total identified	98.63%			98.45%		
Total reported	98.88%			98.72%		

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

