Date : 2026-01-05

Certificate of Analysis - GC Profiling

Sample Identification

Internal code : 25K07-PTH09
Customer Identification : Eucalyptus Globulus ORGANIC - China - E30119R
Type : Essential Oil
Source : *Eucalyptus globulus*
Customer : Plant Therapy

Checked an approved by:

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

Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia. This report is digitally signed, it is only considered valid if the digital signature is intact. The results only describe the samples that were submitted to the assays. The compliance status of the sample is provided to facilitate the reading of the report. The client remains ultimately responsible for reviewing the results presented within this report and to establish compliance of the tested batch against relevant quality criteria.

This report is an update from the first version issued on 2025-11-14 to correct the customer identification.

Méthode certifiée ISO 17025:2017 Certified method

Laboratoire PhytoChemia

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Gas Chromatographic Analysis

Method : PC-MAT-014 - Analysis of the composition of an essential oil or other volatile liquide by FAST GC-FID
ISO
Results : See analysis summary (next page)
Analyst : Sylvain Mercier, M. Sc., Chimiste 2014-005
Date : 2025-11-13

Physicochemical data

Refractive index : 1.4607 ± 0.0003 (20 °C)
Method : PC-MAT-016 - Measure of the refractive index of a liquid.
Analyst : Cindy Caron B. Sc.
Date : 2025-11-07

Conclusion

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

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Analysis Summary - Consolidated Contents

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

Identification	%	Class
α-Thujene	0.01	Monoterpene
α-Pinene	2.96	Monoterpene
Camphene	0.03	Monoterpene
α-Fenchene	0.01	Monoterpene
Thuja-2,4(10)-diene	0.01	Monoterpene
Sabinene	0.06	Monoterpene
β-Pinene	0.28	Monoterpene
Myrcene	0.59	Monoterpene
trans-Dehydroxylinalool oxide	0.03	Monoterpenic ether
α-Phellandrene	0.71	Monoterpene
Pseudolimonene	0.02	Monoterpene
Δ3-Carene	0.03	Monoterpene
α-Terpinene	0.68	Monoterpene
para-Cymene	3.04	Monoterpene
1,8-Cineole	80.77	Monoterpenic ether
Limonene	7.54	Monoterpene
(*Z*)-β-Ocimene	0.03	Monoterpene
(*E*)-β-Ocimene	0.04	Monoterpene
γ-Terpinene	2.22	Monoterpene
Unknown	0.01	Oxygenated monoterpene
cis-Linalool oxide (fur.)	0.01	Monoterpenic alcohol
Terpinolene	0.01	Monoterpene
Linalool	0.01	Monoterpenic alcohol
exo-2-Hydroxycineole	0.01	Monoterpenic alcohol
Unknown	0.02	Unknown
Unknown	0.02	Unknown
Cubeban-11-ol	0.01	Sesquiterpenic alcohol
Consolidated total	**99.15**	

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

Bracketed value ([xx]): A bracketed percent value indicate that two or more compound percentage could not be solved due to coelution.

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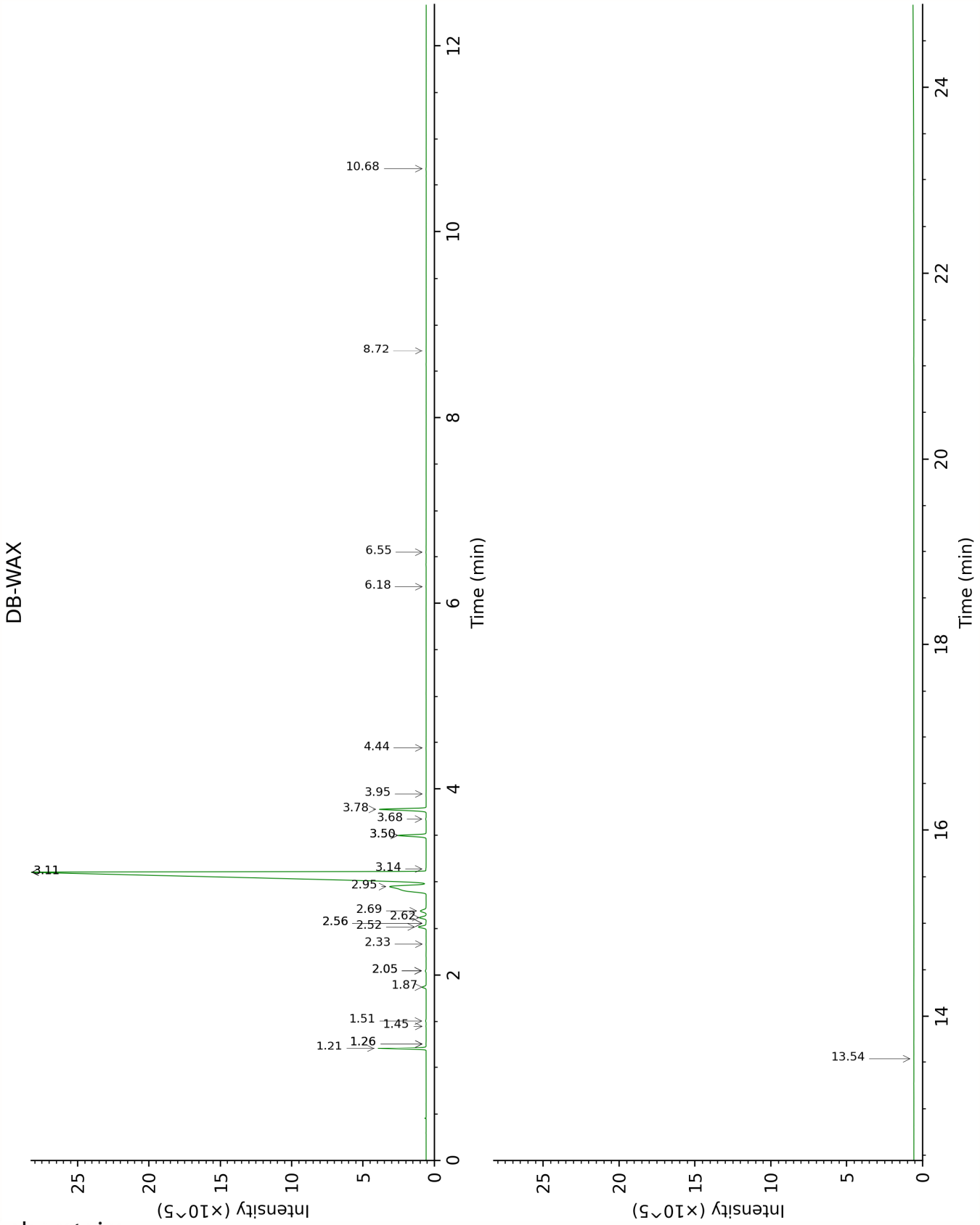
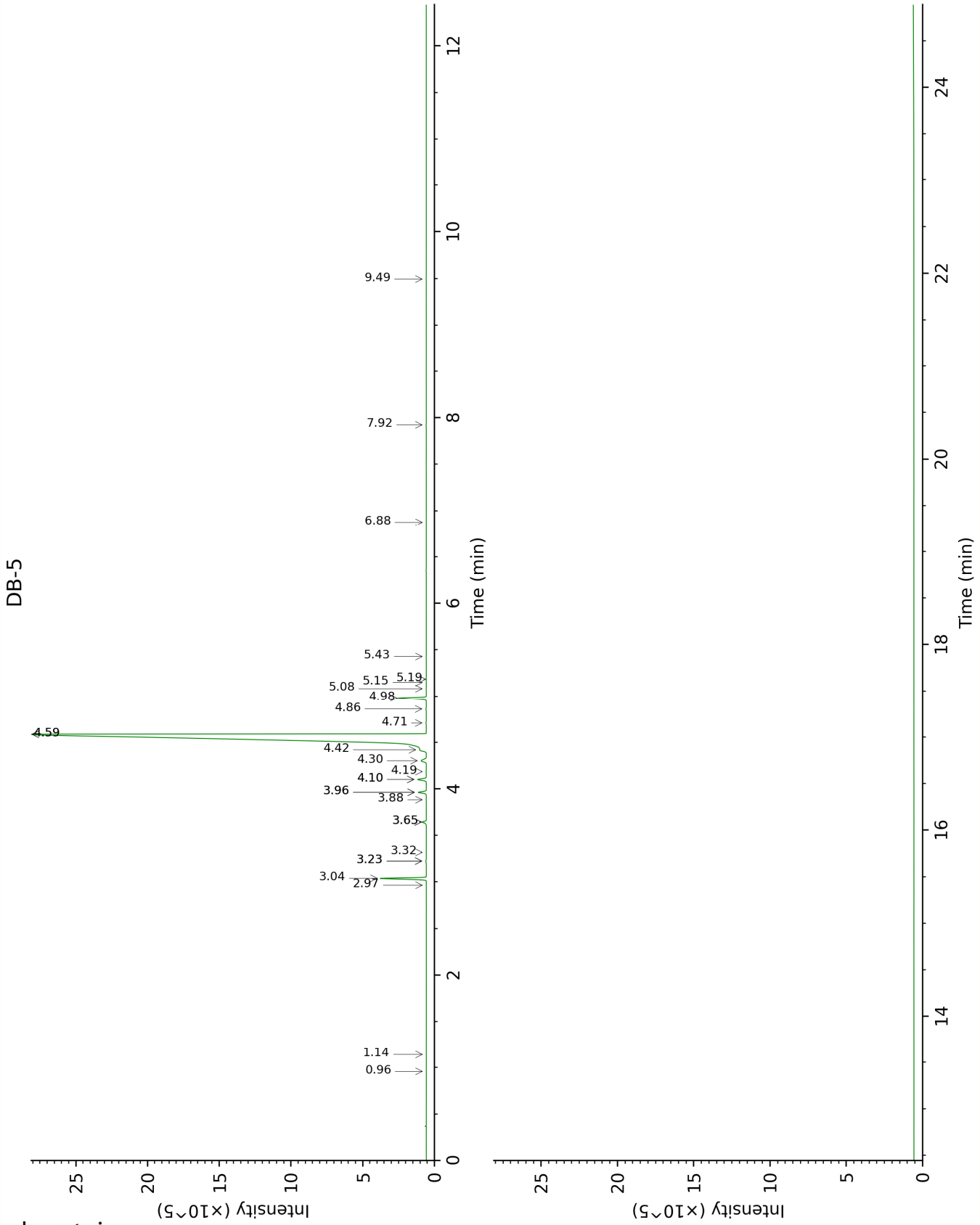

DB-WAX
Intensity (×10^5)
Time (min)
10.68
8.72
6.55
6.18
4.44
3.95
3.78
3.68
3.50
3.14
3.11
2.95
2.69
2.62
2.56
2.52
2.33
2.05
1.87
1.51
1.45
1.26
1.21
13.54


DB-5
9.49
7.92
6.88
5.43
5.19
5.15
5.08
4.98
4.86
4.71
4.59
4.42
4.30
4.19
4.10
3.96
3.88
3.65
3.32
3.23
3.04
2.97
1.14
0.96
Time (min)
Intensity (×10^5)
Time (min)
Intensity (×10^5)

FULL ANALYSIS DATA

α-Thujene	**Column DB-WAX**			**Column DB-5**		
	1.26	1001.0	0.01	2.96	926.1	0.01
α-Pinene	1.21	991.6	2.91	3.04	931.3	2.96
Camphene	1.51	1028.6	0.03	3.22*	943.6	[0.04]
α-Fenchene	1.45	1022.5	0.01	3.22*	943.6	[0.04]
Thuja-2,4(10)-diene	2.05*	1083.8	[0.05]	3.32	950.0	0.01
Sabinene	2.05*	1083.8	[0.05]	3.64*	971.8	[0.35]
β-Pinene	1.87	1065.8	0.28	3.64*	971.8	[0.35]
Myrcene	2.62	1134.5	0.59	3.96*	993.2	[0.62]
trans-Dehydroxylinalool oxide	3.13	1175.0	0.03	3.96*	993.2	[0.62]
α-Phellandrene	2.52	1126.5	0.71	4.10*	1002.5	[0.77]
Pseudolimonene	2.56	1129.5	0.02	4.10*	1002.5	[0.77]
Δ3-Carene	2.33	1111.4	0.01	4.18	1007.7	0.03
α-Terpinene	2.69	1140.3	0.67	4.30	1015.4	0.68
para-Cymene	3.78	1226.0	3.21	4.44†	1023.8	0.87
1,8-Cineole	3.10	1173.3	80.77	4.58*	1033.2	[88.35]
Limonene	2.95	1160.9	7.54	4.58*	1033.2	[88.35]
(*Z*)-β-Ocimene	3.50*	1205.4	[2.23]	4.71	1041.1	0.03
(*E*)-β-Ocimene	3.68	1218.4	0.04	4.86	1050.8	0.04
γ-Terpinene	3.50*	1205.4	[2.23]	4.98	1058.4	2.22
Unknown PIMA I [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	4.44	1274.8	0.01	5.15	1069.0	0.01
cis-Linalool oxide (fur.)	6.19	1401.5	0.01	5.19	1071.4	0.01
Terpinolene	3.95	1238.2	0.02	5.43	1086.8	0.01
Linalool	7.76	1521.0	tr	5.66	1101.7	0.01
exo-2-Hydroxycineole	11.17	1802.8	0.01	7.52	1223.2	0.01
Unknown CALU IV [m/z 43, 97 (69), 107 (46), 41 (28), 55 (21), 109 (20)...]	10.68	1760.8	0.02	7.92	1250.7	0.02
Unknown EUGL I [m/z 43, 95 (62), 107 (45), 110 (41), 55 (28), 67 (25)...]	13.54	2021.2	0.01	9.50	1357.0	0.02
Cubeban-11-ol	13.27	1995.8	0.01	12.52	1585.0	0.01
Total reported		99.20%			97.07%	

*: Two or more compounds are coeluting on this column
[xx]: Duplicate percentage due to coelutions, only the first one is taken into account in the consolidated total
†: Peaks apexes were resolved, but peaks overlapped and were summed for analysis
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

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