

Date : 2026-02-23

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 26A06-PTH10

Customer Identification : Peru Balsam - El Salvador - PN0113R

Type : Resin

Source : *Myroxylon balsamum*

Customer : Plant Therapy

Checked and approved by:

Sylvain Mercier, M. Sc. Chimiste 2014-005

Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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 of the version first issued on 2026-01-06 to make a correction in the sample identification section.

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

Date : 2026-01-06

PHYSICOCHEMICAL DATA

Refractive index : 1.5734 ± 0.0003 (20 °C)

Method : PC-MAT-016 - Measure of the refractive index of a liquid.

Analyst : Cindy Caron B. Sc.

Date : 2026-01-06

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
Benzaldehyde	0.07	Simple phenolic
Benzyl alcohol	0.39	Simple phenolic
Acetophenone	tr	Simple phenolic
Benzyl formate	tr	Phenolic ester
<i>ortho</i> -Guaiacol	0.01	Simple phenolic
Ethyl benzoate	0.01	Phenolic ester
Benzoic acid	1.42	Simple phenolic
4-Vinylguaiacol	0.04	Simple phenolic
Unknown	0.01	Unknown
Eugenol	0.01	Phenylpropanoid
Methyl (<i>E</i>)-cinnamate	0.01	Phenylpropanoid ester
Vanillin	0.45	Simple phenolic
β -Caryophyllene	0.01	Sesquiterpene
Coumarin	0.01	Coumarin
(<i>E</i>)-Cinnamic acid	2.01	Phenylpropanoid
(<i>E</i>)-Isoeugenol	0.02	Phenylpropanoid
Unknown	tr	Unknown
β -Bisabolene	tr	Sesquiterpene
(3 <i>E</i> ,6 <i>E</i>)- α -Farnesene	0.01	Sesquiterpene
Guaiacylacetone	0.07	Phenylpropanoid
(<i>E</i>)-Nerolidol	0.92	Sesquiterpenic alcohol
Unknown	0.02	Unknown
Methoxyeugenol	tr	Phenylpropanoid
Unknown	0.01	Unknown
Syringaldehyde	0.01	Simple phenolic
(<i>E</i>)-Stilbene?	0.01	Stilbene
Unknown	0.01	Unknown
(<i>E</i>)-Coniferyl alcohol	0.01	Phenylpropanoid
Benzyl benzoate	81.28	Phenolic ester
Benzyl <i>para</i> -toluate	tr	Phenolic ester
Benzyl hydrocinnamate	0.02	Phenylpropanoid ester
Benzyl (<i>Z</i>)-cinnamate	0.16	Phenylpropanoid ester
Benzyl (<i>E</i>)-cinnamate	12.65	Phenylpropanoid ester
(<i>E</i>)-Cinnamyl (<i>E</i>)-cinnamate	0.01	Phenylpropanoid ester
Benzyl (<i>E</i>)-ferulate	0.05	Phenylpropanoid ester
Benzyl α -linolenate	tr	Phenolic ester
Consolidated total	99.73	

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

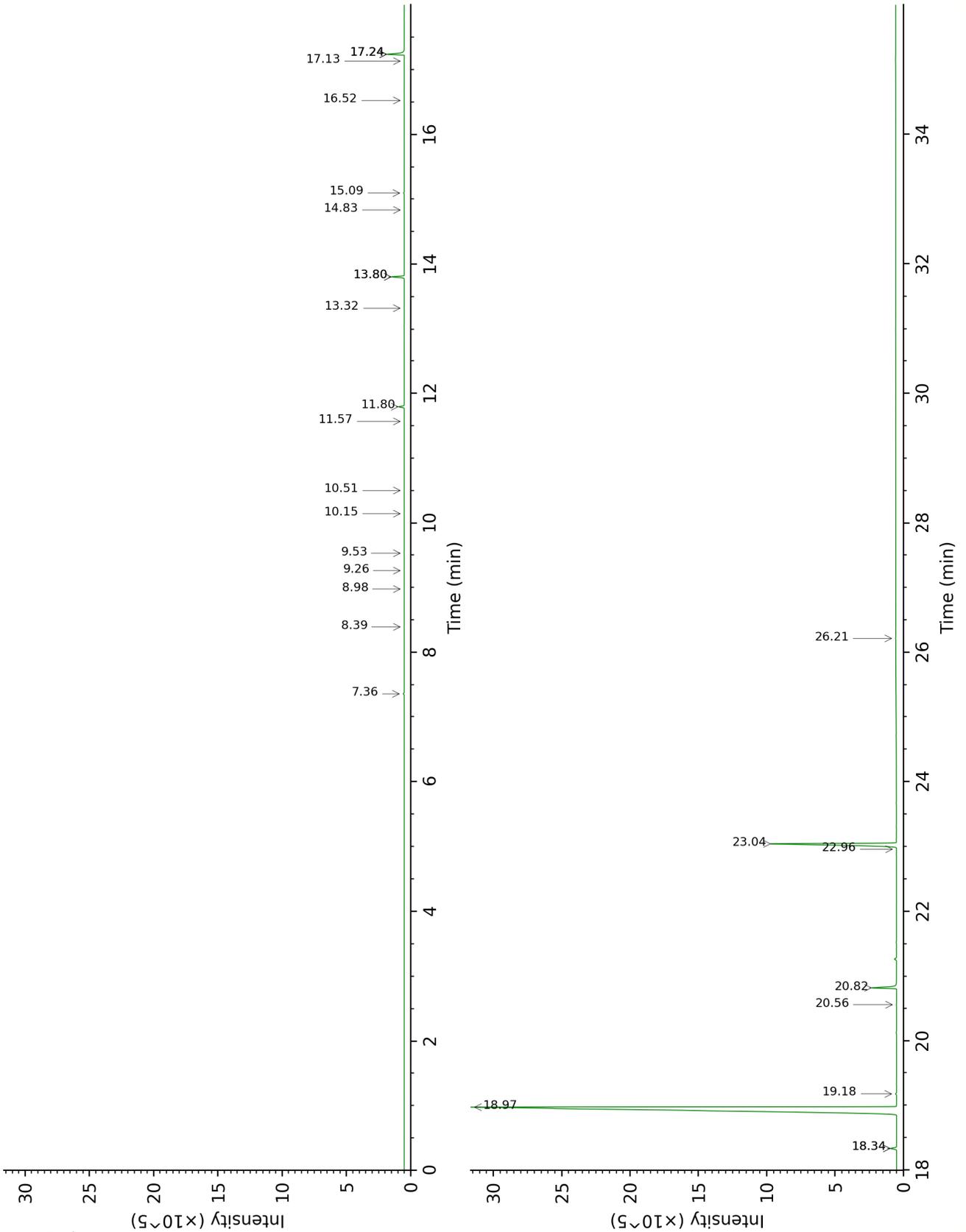
between columns, the algorithm is set to prioritize data from the most standard DB-5 column, and smallest values so as to avoid overestimating individual content. This process is semi-automatic. Advanced users are invited to consult the "Full analysis data" table after the chromatograms in this report to access the full untreated data and perform their own calculations if needed.

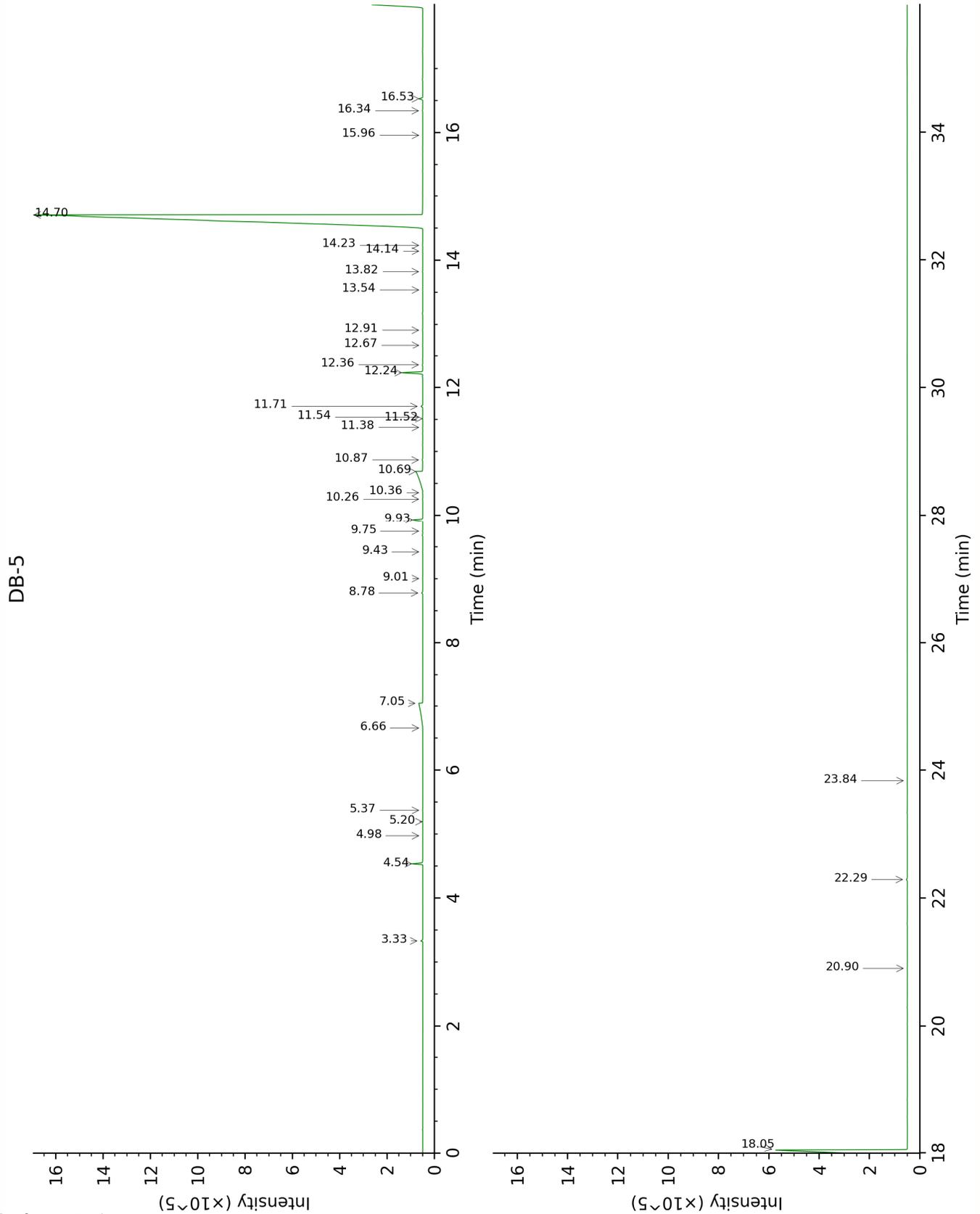
Unknowns: Unknown compounds' mass spectral data is presented in the "Full analysis data" table. The occurrence of unknown compounds is to be expected in many samples, and does not denote particular problems unless noted otherwise in the conclusion.

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





FULL ANALYSIS DATA

Benzaldehyde	Column DB-WAX			Column DB-5		
	7.36	1462.2	0.07	3.33	952.6	0.07
Benzyl alcohol	11.80	1818.3	0.41	4.54	1032.0	0.39
Acetophenone	8.98	1584.9	tr	4.98	1059.8	tr
Benzyl formate	9.53	1628.9	tr	5.20	1073.8	tr
<i>ortho</i> -Guaiacol	11.57	1798.4	0.01	5.37	1085.2	0.01
Ethyl benzoate	9.26	1607.4	0.01	6.66	1168.4	0.01
Benzoic acid	17.24*	2347.9	[1.46]	7.05	1193.6	1.42
4-Vinylguaiacol	15.09	2124.9	0.05	8.78	1308.6	0.04
Unknown MYBA I [m/z 105, 77 (59), 122 (29), 51 (18), 106 (8), 50 (8)...]				9.01	1324.6	0.01
Eugenol	14.83	2098.9	0.01	9.42	1354.3	0.01
Methyl (<i>E</i> -cinnamate	13.80*	2000.1	[0.91]	9.75	1377.4	0.01
Vanillin	18.34*	2469.5	[0.46]	9.93	1390.5	0.45
β -Caryophyllene	8.39	1540.0	0.01	10.26	1414.1	0.01
Coumarin	17.13	2336.5	0.01	10.36	1421.7	0.01
(<i>E</i> -Cinnamic acid	20.82	2766.0	1.93	10.69	1446.5	2.01
(<i>E</i> -Isoeugenol	16.52	2271.8	0.01	10.87	1460.0	0.02
Unknown MYBA II [m/z 151, 166 (47), 77 (35), 147 (35), 105 (25), 148 (24)...]				11.38	1498.2	tr
β -Bisabolene	10.15	1678.9	0.01	11.52	1508.6	tr
(3 <i>E</i> ,6 <i>E</i>)- α -Farnesene	10.51	1708.4	0.01	11.54	1510.4	0.01
Guaiacylacetone	19.18	2566.5	0.08	11.71	1523.8	0.07
(<i>E</i> -Nerolidol	13.80*	2000.1	[0.91]	12.24	1565.4	0.92
Unknown MYBA V [m/z 109, 69 (75), 43 (55), 41 (29), 93 (28), 55 (26), 71 (22)...]	13.32	1955.5	0.01	12.36	1575.0	0.02
Methoxyeugenol	18.34*	2469.5	[0.46]	12.67	1599.9	tr
Unknown MISC CXXXVI [m/z 131, 103 (51), 77 (32), 148 (23), 51 (12)...]				12.91	1619.2	0.01

Syringaldehyde				13.54	1671.2	0.01
(E)-Stilbene?	17.24*	2347.9	[1.46]	13.82	1694.8	0.01
Unknown MYBA VI [m/z 194, 115 (73), 193 (59), 179 (42), 116 (41), 91 (38)...]	17.24*	2347.9	[1.46]	14.14	1722.1	0.01
(E)-Coniferyl alcohol	22.96	3046.4	tr	14.23	1729.9	0.01
Benzyl benzoate	18.97	2542.8	81.24	14.70	1771.1	81.28
Benzyl <i>para</i> -toluate				15.96	1883.7	tr
Benzyl hydrocinnamate	20.56	2733.7	0.02	16.34	1919.2	0.02
Benzyl (Z)-cinnamate				16.53	1937.2	0.16
Benzyl (E)-cinnamate	23.04	3057.7	12.66	18.05	2085.1	12.65
(E)-Cinnamyl (E)-cinnamate	26.22	3520.6	0.03	20.90	2390.1	0.01
Benzyl (E)-ferulate				22.29	2552.7	0.05
Benzyl α -linolenate				23.84	2744.9	tr
Total reported		99.40%			99.73%	

*: 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