

Date : September 07, 2022

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 22H30-PTH02


Customer identification : Peppermint ORGANIC - India - P40112R

Type : Essential oil

Source : *Mentha x piperita*

Customer : Plant Therapy

ANALYSIS

Method: PC-MAT-014  - Analysis of the composition of an essential oil or other volatile liquid by FAST GC-FID (in French); identifications validated by GC-MS.

Analyst : Pamela Lavoie, M.Sc., Chimiste

Analysis date : September 01, 2022

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Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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.

PHYSICOCHEMICAL DATA

Physical aspect: Clear liquid

Refractive index: 1.4605 ± 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 |
|--|------|----------------------|
| Isovaleral | 0.02 | Aliphatic aldehyde |
| 2-Methylbutyral | 0.02 | Aliphatic aldehyde |
| 2-Ethylfuran | tr | Furan |
| Isoamyl alcohol | 0.03 | Aliphatic alcohol |
| 2-Methylbutanol | 0.02 | Aliphatic alcohol |
| Ethyl 2-methylbutyrate | 0.01 | Aliphatic ester |
| (3Z)-Hexenol | 0.01 | Aliphatic alcohol |
| Hexanol | 0.01 | Aliphatic alcohol |
| <i>trans</i> -2,5-Diethyltetrahydrofuran | 0.03 | Furan |
| α -Thujene | 0.05 | Monoterpene |
| α -Pinene | 0.80 | Monoterpene |
| 3-Methylcyclohexanone | 0.03 | Aliphatic ketone |
| Camphene | 0.02 | Monoterpene |
| Thuja-2,4(10)-diene | 0.01 | Monoterpene |
| Benzaldehyde | 0.01 | Simple phenolic |
| Sabinene | 0.51 | Monoterpene |
| β -Pinene | 1.20 | Monoterpene |
| Octen-3-ol | 0.08 | Aliphatic alcohol |
| Octan-3-one | 0.03 | Aliphatic ketone |
| Myrcene | 0.27 | Monoterpene |
| Octan-3-ol | 0.17 | Aliphatic alcohol |
| Pseudolimonene | 0.02 | Monoterpene |
| α -Phellandrene | 0.03 | Monoterpene |
| α -Terpinene | 0.29 | Monoterpene |
| Carvomenthene | 0.01 | Aliphatic alcohol |
| para-Cymene | 0.21 | Monoterpene |
| Limonene | 2.01 | Monoterpene |
| 1,8-Cineole | 5.47 | Monoterpenic ether |
| 2-Ethylhexanol | 0.01 | Aliphatic alcohol |
| (Z)- β -Ocimene | 0.25 | Monoterpene |
| (E)- β -Ocimene | 0.07 | Monoterpene |
| γ -Terpinene | 0.50 | Monoterpene |
| <i>cis</i> -Sabinene hydrate | 0.37 | Monoterpenic alcohol |
| para-Mentha-3,8-diene | 0.01 | Monoterpene |
| <i>cis</i> -Linalool oxide (fur.) | 0.02 | Monoterpenic alcohol |
| Octanol | 0.02 | Aliphatic alcohol |
| para-Cymenene | 0.01 | Monoterpene |
| Terpinolene | 0.16 | Monoterpene |
| <i>trans</i> -Sabinene hydrate | 0.05 | Monoterpenic alcohol |
| Nonan-3-ol | 0.01 | Aliphatic alcohol |
| Linalool | 0.23 | Monoterpenic alcohol |
| 2-Methylbutyl 2-methylbutyrate | 0.06 | Aliphatic ester |
| Isoamyl isovalerate | 0.01 | Aliphatic ester |
| Amyl isovalerate | 0.04 | Aliphatic ester |
| endo-Fenchol | 0.01 | Monoterpenic alcohol |

| | | |
|--|-------|----------------------|
| Octen-3-yl acetate | 0.02 | Aliphatic ester |
| <i>cis</i> -para-Menth-2-en-1-ol | 0.07 | Monoterpenic alcohol |
| Octan-3-yl acetate | 0.02 | Aliphatic ester |
| allo-Ocimene | 0.01 | Monoterpene |
| <i>trans</i> -Sabinol | 0.03 | Monoterpenic alcohol |
| neo-Isopulegol | 0.06 | Monoterpenic alcohol |
| Isopulegol | 0.14 | Monoterpenic alcohol |
| Menthone | 23.43 | Monoterpenic ketone |
| Isomenthone | 4.04 | Monoterpenic ketone |
| Menthofuran | 2.83 | Monoterpenic ether |
| neo-Menthol | 3.85 | Monoterpenic alcohol |
| δ -Terpineol | 0.17 | Monoterpenic alcohol |
| Lavandulol | 0.05 | Monoterpenic alcohol |
| Terpinen-4-ol | 1.09 | Monoterpenic alcohol |
| Menthol | 34.52 | Monoterpenic alcohol |
| Isomenthol | 0.53 | Monoterpenic alcohol |
| para-Cymen-8-ol | 0.03 | Monoterpenic alcohol |
| α -Terpineol | 0.25 | Monoterpenic alcohol |
| neiso-Menthol | 0.16 | Monoterpenic alcohol |
| Methylchavicol | 0.03 | Phenylpropanoid |
| Myrtenol | 0.02 | Monoterpenic alcohol |
| <i>trans</i> -Isopiperitenol | 0.01 | Monoterpenic alcohol |
| Unknown | 0.02 | Unknown |
| <i>trans</i> -Piperitol | 0.03 | Monoterpenic alcohol |
| <i>trans</i> -Carveol | 0.01 | Monoterpenic alcohol |
| <i>cis</i> -Carveol | 0.01 | Monoterpenic alcohol |
| (3 <i>Z</i>)-Hexenyl 2-methylbutyrate | 0.02 | Aliphatic ester |
| Citronellol | 0.03 | Monoterpenic alcohol |
| Pulegone | 1.12 | Monoterpenic ketone |
| Carvone | 0.16 | Monoterpenic ketone |
| Unknown | 0.02 | Unknown |
| Piperitone | 0.49 | Monoterpenic ketone |
| Isopiperitenone | 0.01 | Monoterpenic ketone |
| neo-Menthyl acetate | 0.45 | Monoterpenic ester |
| Decanol | 0.01 | Aliphatic alcohol |
| 2-Ethylmenthone? | 0.05 | Aliphatic ketone |
| Dihydroedulan I | 0.07 | Terpenic ether |
| Menthyl acetate | 5.90 | Monoterpenic ester |
| Dihydroedulan II | 0.08 | Terpenic ether |
| Thymol | 0.04 | Monoterpenic alcohol |
| Isomenthyl acetate | 0.28 | Monoterpenic alcohol |
| Unknown | 0.02 | Unknown |
| Bicycloelemene | 0.02 | Sesquiterpene |
| <i>trans</i> -Carvyl acetate | 0.01 | Monoterpenic ester |
| Piperitenone | 0.01 | Monoterpenic ketone |
| Menthofuroolactone isomer II | 0.02 | Monoterpenic lactone |
| Evodone | 0.03 | Monoterpenic ketone |
| Eugenol | 0.02 | Phenylpropanoid |
| α -Copaene | 0.03 | Sesquiterpene |
| β -Bourbonene | 0.20 | Sesquiterpene |
| 1,5-diepi- β -Bourbonene | 0.01 | Sesquiterpene |
| β -Cubebene | 0.03 | Sesquiterpene |

| | | |
|-----------------------------|---------------|--------------------------|
| β-Elemene | 0.09 | Sesquiterpene |
| Unknown | 0.06 | Unknown |
| Isocaryophyllene | 0.04 | Sesquiterpene |
| β-Ylangene | 0.08 | Sesquiterpene |
| β-Caryophyllene | 2.27 | Sesquiterpene |
| β-Copaene | 0.05 | Sesquiterpene |
| <i>trans</i> -α-Bergamotene | 0.02 | Sesquiterpene |
| Isogermacrene D | 0.02 | Sesquiterpene |
| α-Humulene | 0.10 | Sesquiterpene |
| Muurolo-4,11-diene | 0.01 | Sesquiterpene |
| 9-epi-β-Caryophyllene | 0.05 | Sesquiterpene |
| (<i>E</i>)-β-Farnesene | 0.34 | Sesquiterpene |
| γ-Muurolole | 0.03 | Sesquiterpene |
| Germacrene D | 1.51 | Sesquiterpene |
| Menthylactone | 0.03 | Monoterpenic lactone |
| Bicyclogermacrene | 0.15 | Sesquiterpene |
| Viridiflorene | 0.01 | Sesquiterpene |
| α-Muurolole | 0.02 | Sesquiterpene |
| ε-Amorphene | 0.03 | Sesquiterpene |
| γ-Cadinene | 0.02 | Sesquiterpene |
| δ-Cadinene | 0.05 | Sesquiterpene |
| <i>trans</i> -Calamenene | 0.02 | Sesquiterpene |
| Isocaryophyllene epoxide B | 0.01 | Sesquiterpenic ether |
| Spathulenol | 0.02 | Sesquiterpenic alcohol |
| Caryophyllene oxide isomer | 0.01 | Sesquiterpenic ether |
| Caryophyllene oxide | 0.05 | Sesquiterpenic ether |
| Viridiflorol | 0.14 | Sesquiterpenic alcohol |
| Isospathulenol | 0.01 | Sesquiterpenic alcohol |
| τ-Muurolol | 0.02 | Sesquiterpenic alcohol |
| α-Cadinol | 0.01 | Sesquiterpenic alcohol |
| Unknown | 0.01 | Oxygenated sesquiterpene |
| Mint sulfide? | 0.01 | Sesquiterpenic sulfide |
| Consolidated total | 99.07% | |

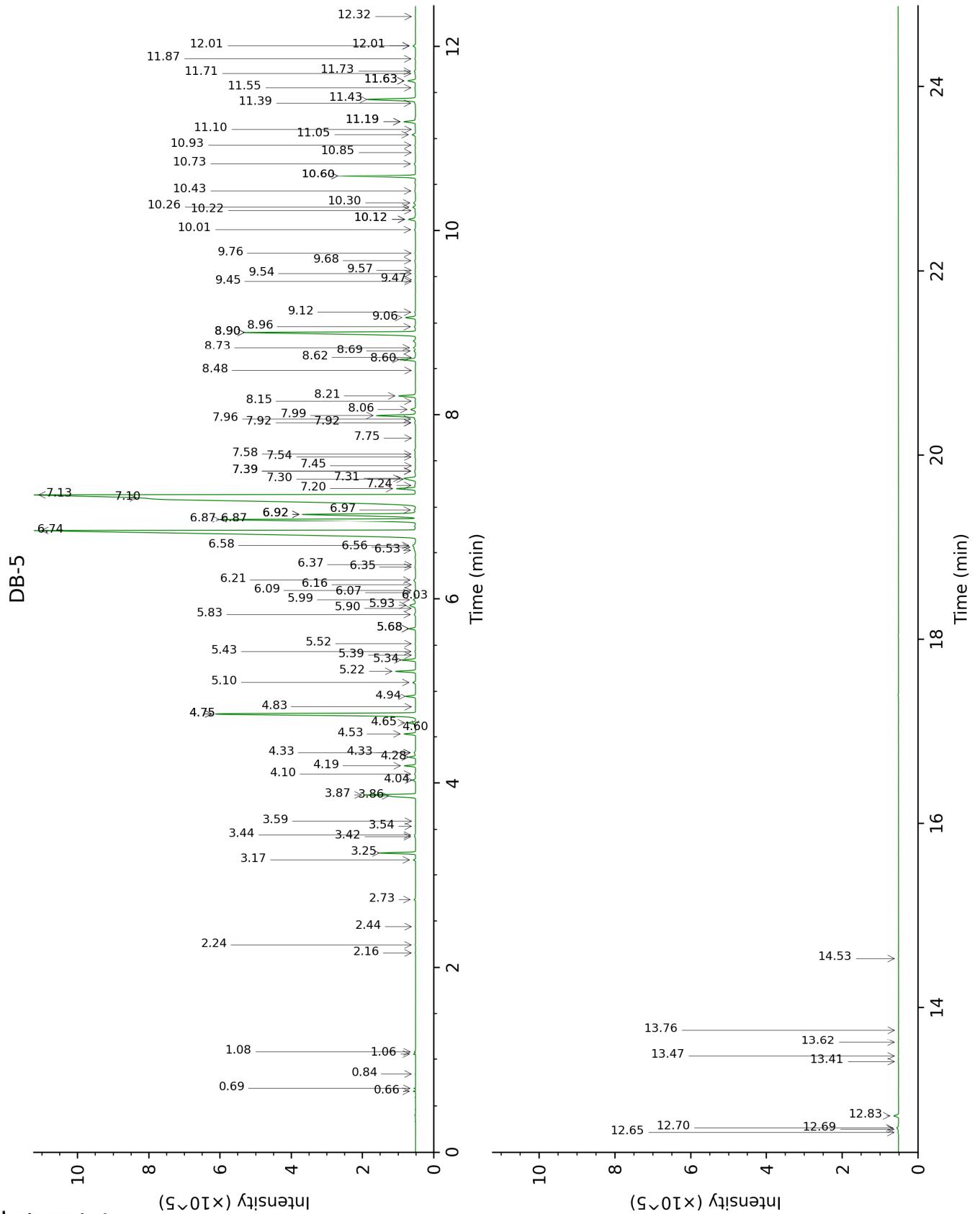
tr: The compound has been detected below 0.005% of total signal.

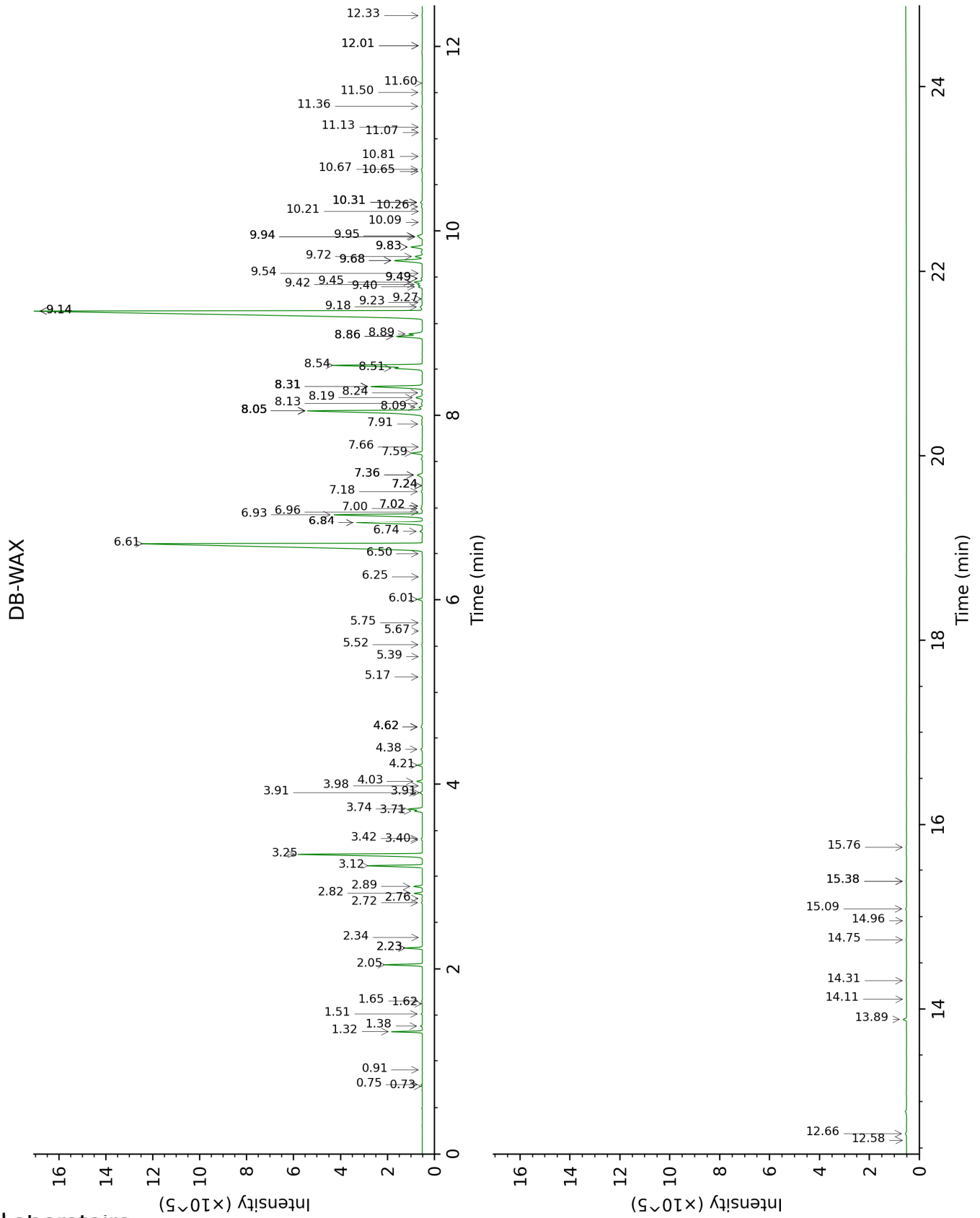
Note: no correction factor was applied

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.

This page was intentionally left blank. The following pages present the complete data of the analysis.





FULL ANALYSIS DATA

| Identification | Column DB-5 | | | Column DB-WAX | | |
|--|-------------|------|--------|---------------|------|--------|
| | R.T | R.I | % | R.T | R.I | % |
| Isovaleral | 0.66 | 642 | 0.02 | 0.75 | 889 | 0.02 |
| 2-Methylbutyral | 0.69 | 652 | 0.02 | 0.73 | 881 | 0.02 |
| 2-Ethylfuran | 0.84 | 700 | tr | 0.90 | 919 | tr |
| Isoamyl alcohol | 1.06 | 730 | 0.03 | 3.42 | 1180 | 0.03 |
| 2-Methylbutanol | 1.08 | 733 | 0.02 | 3.40 | 1179 | 0.02 |
| Ethyl 2-methylbutyrate | 2.16 | 848 | 0.01 | 1.62 | 1023 | 0.01 |
| (3Z)-Hexenol | 2.24 | 856 | 0.01 | 5.66 | 1345 | 0.01 |
| Hexanol | 2.44 | 872 | 0.01 | 5.39 | 1325 | 0.01 |
| <i>trans</i> -2,5-Diethyltetrahydrofuran | 2.74 | 896 | 0.03 | 1.51 | 1012 | 0.03 |
| α -Thujene | 3.17 | 926 | 0.05 | 1.38 | 998 | 0.05 |
| α -Pinene | 3.25 | 931 | 0.80 | 1.32 | 991 | 0.80 |
| 3-Methylcyclohexanone | 3.42 | 942 | 0.03 | 4.62* | 1269 | 0.07 |
| Camphene | 3.44 | 943 | 0.02 | 1.65 | 1026 | 0.02 |
| Thuja-2,4(10)-diene | 3.54 | 950 | 0.01 | 2.23* | 1084 | 0.53 |
| Benzaldehyde | 3.59 | 953 | 0.01 | 7.24* | 1461 | 0.04 |
| Sabinene | 3.86† | 971 | 1.71 | 2.23* | 1084 | [0.53] |
| β -Pinene | 3.87† | 972 | [1.71] | 2.05 | 1066 | 1.20 |
| Octen-3-ol | 4.04 | 983 | 0.08 | 6.74 | 1424 | 0.09 |
| Octan-3-one | 4.10 | 987 | 0.03 | 3.91* | 1218 | 0.09 |
| Myrcene | 4.19 | 993 | 0.27 | 2.82 | 1133 | 0.27 |
| Octan-3-ol | 4.28 | 999 | 0.17 | 6.01 | 1370 | 0.17 |
| Pseudolimonene | 4.33* | 1002 | 0.06 | 2.76 | 1128 | 0.02 |
| α -Phellandrene | 4.33* | 1002 | [0.06] | 2.72 | 1125 | 0.03 |
| α -Terpinene | 4.53 | 1015 | 0.29 | 2.89 | 1139 | 0.29 |
| Carvomenthene | 4.60 | 1019 | 0.01 | 2.34 | 1095 | 0.01 |
| para-Cymene | 4.65 | 1022 | 0.21 | 4.03 | 1226 | 0.20 |
| Limonene | 4.75* | 1028 | 7.47 | 3.12 | 1157 | 2.01 |
| 1,8-Cineole | 4.75* | 1028 | [7.47] | 3.25 | 1167 | 5.47 |
| 2-Ethylhexanol | 4.83 | 1033 | 0.01 | 7.18 | 1456 | 0.05 |
| (Z)- β -Ocimene | 4.94 | 1040 | 0.25 | 3.71† | 1203 | 0.76 |
| (E)- β -Ocimene | 5.10 | 1050 | 0.07 | 3.91* | 1218 | [0.09] |
| γ -Terpinene | 5.22 | 1058 | 0.50 | 3.74† | 1205 | [0.76] |
| <i>cis</i> -Sabinene hydrate | 5.34 | 1065 | 0.37 | 6.84* | 1431 | 3.22 |
| para-Mentha-3,8-diene | 5.39 | 1069 | 0.01 | 3.98 | 1223 | 0.01 |
| <i>cis</i> -Linalool oxide (fur.) | 5.43 | 1071 | 0.02 | 6.50 | 1406 | 0.02 |
| Octanol | 5.52 | 1076 | 0.02 | 8.05* | 1522 | 6.34 |
| para-Cymenene | 5.68* | 1086 | 0.17 | 6.25 | 1387 | 0.01 |
| Terpinolene | 5.68* | 1086 | [0.17] | 4.21 | 1239 | 0.16 |
| <i>trans</i> -Sabinene hydrate | 5.83 | 1096 | 0.05 | 7.91 | 1511 | 0.04 |
| Nonan-3-ol | 5.90 | 1100 | 0.01 | 7.24* | 1461 | [0.04] |
| Linalool | 5.93 | 1102 | 0.23 | 8.05* | 1522 | [6.34] |
| 2-Methylbutyl 2-methylbutyrate | 5.99 | 1106 | 0.06 | 4.38 | 1252 | 0.07 |
| Isoamyl isovalerate | 6.03 | 1108 | 0.01 | 4.62* | 1269 | [0.07] |
| Amyl isovalerate | 6.07 | 1111 | 0.04 | 4.62* | 1269 | [0.07] |

| | | | | | | |
|---|-------|------|---------|--------|------|--------|
| endo-Fenchol | 6.09 | 1113 | 0.01 | 8.31* | 1542 | 2.39 |
| Octen-3-yl acetate | 6.16 | 1116 | 0.02 | 5.75 | 1351 | 0.01 |
| cis-para-Menth-2-en-1-ol | 6.21 | 1120 | 0.07 | 8.05* | 1522 | [6.34] |
| Octan-3-yl acetate | 6.35 | 1129 | 0.02 | 5.17 | 1309 | 0.02 |
| allo-Ocimene | 6.37 | 1130 | 0.01 | 5.52 | 1334 | 0.03 |
| trans-Sabinol | 6.53 | 1140 | 0.03 | 9.72† | 1654 | [1.79] |
| neo-Isopulegol | 6.56 | 1142 | 0.06 | 8.13 | 1528 | 0.05 |
| Isopulegol | 6.58 | 1144 | 0.14 | 8.09 | 1525 | 0.14 |
| Menthone | 6.74 | 1154 | 23.43 | 6.61 | 1414 | 23.41 |
| Isomenthone | 6.87* | 1162 | 6.87 | 6.93 | 1437 | 4.04 |
| Menthofuran | 6.87* | 1162 | [6.87] | 6.84* | 1431 | [3.22] |
| neo-Menthol | 6.92* | 1166 | 4.02 | 8.54 | 1560 | 3.85 |
| δ-Terpineol | 6.92* | 1166 | [4.02] | 9.42 | 1630 | 0.17 |
| Lavandulol | 6.97 | 1169 | 0.05 | 9.49* | 1635 | 0.06 |
| Terpinen-4-ol | 7.10† | 1177 | 35.71 | 8.51 | 1558 | 1.09 |
| Menthol | 7.14† | 1179 | [35.71] | 9.14* | 1607 | 34.53 |
| Isomenthol | 7.20 | 1184 | 0.53 | 8.89 | 1587 | 0.56 |
| para-Cymen-8-ol | 7.24 | 1186 | 0.03 | 11.50 | 1803 | 0.03 |
| α-Terpineol | 7.30† | 1190 | 0.47 | 9.68*† | 1651 | 1.79 |
| neoiso-Menthol | 7.31† | 1191 | [0.47] | 9.40 | 1628 | 0.16 |
| Methylchavicol | 7.39* | 1196 | 0.05 | 9.23 | 1614 | 0.03 |
| Myrtenol | 7.39* | 1196 | [0.05] | 10.81 | 1744 | 0.02 |
| trans-Isopiperitenol | 7.45 | 1199 | 0.01 | 10.31* | 1702 | 0.09 |
| Unknown [m/z 43, 99 (84), 81 (46), 986 (43), 126 (36), 71 (28)... 170 (12)] | 7.54 | 1205 | 0.02 | | | |
| trans-Piperitol | 7.58 | 1208 | 0.03 | 10.31* | 1702 | [0.09] |
| trans-Carveol | 7.75 | 1219 | 0.01 | 11.36 | 1790 | 0.04 |
| cis-Carveol | 7.92* | 1230 | 0.03 | 11.60 | 1812 | 0.01 |
| (3Z)-Hexenyl 2-methylbutyrate | 7.92* | 1230 | [0.03] | 7.02* | 1444 | 0.03 |
| Citronellol | 7.96 | 1233 | 0.03 | 10.67 | 1732 | 0.04 |
| Pulegone | 7.99 | 1236 | 1.12 | 8.86* | 1585 | 1.16 |
| Carvone | 8.06 | 1240 | 0.16 | 9.94*† | 1671 | 0.32 |
| Unknown [m/z 112, 43 (70), 70 (63), 59 (53), 97 (46), 84 (25)...] | 8.15 | 1246 | 0.02 | 10.21 | 1694 | 0.01 |
| Piperitone | 8.21 | 1250 | 0.49 | 9.83* | 1662 | 0.49 |
| Isopiperitenone | 8.48 | 1268 | 0.01 | 11.07 | 1766 | 0.01 |
| neo-Menthyl acetate | 8.60 | 1276 | 0.45 | 7.59 | 1487 | 0.43 |
| Decanol | 8.62 | 1277 | 0.01 | 10.65 | 1730 | 0.02 |
| 2-Ethylmenthone? | 8.69 | 1282 | 0.05 | | | |
| Dihydroedulan I | 8.73 | 1285 | 0.07 | 7.00 | 1442 | 0.06 |
| Menthyl acetate | 8.90* | 1296 | 6.08 | 8.05* | 1522 | [6.34] |
| Dihydroedulan II | 8.90* | 1296 | [6.08] | 7.36* | 1469 | 0.28 |
| Thymol | 8.96 | 1300 | 0.04 | 15.08 | 2135 | 0.04 |
| Isomenthyl acetate | 9.06 | 1307 | 0.28 | 8.19 | 1533 | 0.31 |
| Unknown [m/z 43, 136 (55), 121 (55), 107 (48), | 9.12 | 1311 | 0.02 | | | |

| | | | | | | |
|---|--------|------|--------|--------|------|---------|
| 93 (48), 81 (30), 79 (29)... | | | | | | |
| Bicycloelemene | 9.45 | 1334 | 0.02 | 6.96 | 1440 | 0.01 |
| <i>trans</i> -Carvyl acetate | 9.47 | 1335 | 0.01 | 10.09 | 1684 | 0.01 |
| Piperitenone | 9.54 | 1340 | 0.01 | 12.01* | 1847 | 0.01 |
| Menthofuroolactone isomer II | 9.57 | 1342 | 0.02 | | | |
| Evodone | 9.68 | 1350 | 0.03 | 12.33 | 1876 | 0.03 |
| Eugenol | 9.76 | 1356 | 0.02 | 14.75 | 2102 | 0.02 |
| α -Copaene | 10.01 | 1373 | 0.03 | 7.02* | 1444 | [0.03] |
| β -Bourbonene | 10.12* | 1381 | 0.21 | 7.36* | 1469 | [0.28] |
| 1,5-diepi- β -Bourbonene | 10.12* | 1381 | [0.21] | 7.24* | 1461 | [0.04] |
| β -Cubebene | 10.22 | 1388 | 0.03 | 7.66 | 1492 | 0.02 |
| β -Elemene | 10.26 | 1391 | 0.09 | 8.31* | 1542 | [2.39] |
| Unknown [m/z 107, 121 (79), 119 (66), 91 (58), 136 (55), 105 (49)... 194 (1)] | 10.30 | 1394 | 0.06 | | | |
| Isocaryophyllene | 10.43 | 1403 | 0.04 | 8.05* | 1522 | [6.34] |
| β -Ylangene | 10.60* | 1415 | 2.35 | 8.05* | 1522 | [6.34] |
| β -Caryophyllene | 10.60* | 1415 | [2.35] | 8.31* | 1542 | [2.39] |
| β -Copaene | 10.73 | 1425 | 0.05 | 8.24 | 1537 | 0.04 |
| <i>trans</i> - α -Bergamotene | 10.85 | 1434 | 0.02 | 8.31* | 1542 | [2.39] |
| Isogermacrene D | 10.93 | 1440 | 0.02 | 8.86* | 1585 | [1.16] |
| α -Humulene | 11.05 | 1449 | 0.10 | 9.18 | 1610 | 0.12 |
| Muurolo-4,11-diene | 11.10 | 1453 | 0.01 | 9.14* | 1607 | [34.53] |
| 9-epi- β -Caryophyllene | 11.19* | 1459 | 0.33 | 9.27 | 1617 | 0.05 |
| (<i>E</i>)- β -Farnesene | 11.19* | 1459 | [0.33] | 9.45 | 1632 | 0.34 |
| γ -Muurolole | 11.39 | 1474 | 0.03 | 9.49* | 1635 | [0.06] |
| Germacrene D | 11.43 | 1477 | 1.51 | 9.68*† | 1651 | [1.79] |
| Menthylactone | 11.55 | 1486 | 0.03 | 15.76 | 2202 | 0.02 |
| Bicyclgermacrene | 11.63* | 1492 | 0.24 | 9.95† | 1672 | [0.32] |
| Viridiflorene | 11.63* | 1492 | [0.24] | 9.54 | 1640 | 0.01 |
| α -Muurolole | 11.71 | 1498 | 0.02 | 9.94*† | 1671 | [0.32] |
| ϵ -Amorphene | 11.73 | 1500 | 0.03 | 9.83* | 1662 | [0.49] |
| γ -Cadinene | 11.87 | 1510 | 0.02 | 10.26 | 1698 | 0.05 |
| δ -Cadinene | 12.01* | 1521 | 0.08 | 10.31* | 1702 | [0.09] |
| <i>trans</i> -Calamenene | 12.01* | 1521 | [0.08] | 11.13 | 1771 | 0.02 |
| Isocaryophyllene epoxide B | 12.32 | 1546 | 0.01 | 12.01* | 1847 | [0.01] |
| Spathulenol | 12.65 | 1571 | 0.02 | 14.31 | 2059 | 0.02 |
| Caryophyllene oxide isomer | 12.69 | 1574 | 0.01 | 12.58 | 1900 | 0.02 |
| Caryophyllene oxide | 12.70 | 1575 | 0.05 | 12.66 | 1906 | 0.06 |
| Viridiflorol | 12.83 | 1585 | 0.14 | 13.89 | 2020 | 0.14 |
| Isospathulenol | 13.41 | 1632 | 0.01 | 15.38* | 2164 | 0.02 |
| τ -Muurolol | 13.47 | 1637 | 0.02 | 14.96 | 2122 | 0.01 |
| α -Cadinol | 13.62 | 1649 | 0.01 | 15.38* | 2164 | [0.02] |
| Unknown [m/z 82, 81 (92), 95 (76), 67 (69), 93 | 13.76 | 1661 | 0.01 | 14.11 | 2040 | 0.01 |

| | | | | |
|--|-------|---------------|------|---------------|
| (68), 107 (68), 79 (63), 91 (61)... 220 (11)] | | | | |
| Mint sulfide? | 14.53 | 1726 | 0.01 | |
| Total identified | | 99.23% | | 98.98% |
| Total reported | | 99.36% | | 99.00% |

*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not 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