

Date : May 26, 2020

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 20E25-PTH08

Customer identification : Eucalyptus Globulus Organic - Portugal - E3011382R

Type : Essential oil

Source : *Eucalyptus globulus*

Customer : Plant Therapy

ANALYSIS

Method: PC-MAT-007 - Analysis of the composition of an essential oil or other volatile liquide by FAST GC-FID (in French); identifications validated by GC-MS.

Analyst : Sylvain Mercier, M. Sc., Chimiste

Analysis date : May 26, 2020

Checked and approved by :

Alexis St-Gelais, M. Sc., chimiste 2013-174

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PYHSICOCHEMICAL DATA

Physical aspect: Faintly yellow liquid

Refractive index: 1.4648 ± 0.0003 (20 °C; method PC-MAT-016)

ISO 770:2002 - CRUDE OIL OF *EUCALYPTUS GLOBULUS*

| Compound | Min. % | Max. % | Observed % | Complies? |
|-------------------------|---------------|---------------|---------------|------------|
| Globulol | 0.5 | 1.5 | 0.5 | Yes |
| Aromadendrene | 0.5 | 10.0 | 4.9 | Yes |
| trans-Pinocarveol | 1 | 6 | 2 | Yes |
| para-Cymene | 1.0 | 2.0 | 1.5 | Yes |
| 1,8-Cineole | 60 | | 62 | Yes |
| Limonene | 1 | 8 | 3 | Yes |
| α-Phellandrene | 0.1 | 1.0 | 0.4 | Yes |
| α-Pinene | 10 | 22 | 14 | Yes |
| Refractive index | 1.4570 | 1.4750 | 1.4648 | Yes |

CONCLUSION

No adulterant, contaminant or diluent has been detected using this method. The oil complies with the ISO standard for crude *Eucalyptus globulus* oil.

ANALYSIS SUMMARY – CONSOLIDATED CONTENTS

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

| Identification | % | Class |
|-----------------------------|-------|------------------------|
| Isobutyral | tr | Aliphatic aldehyde |
| Isobutanol | tr | Aliphatic alcohol |
| Isovaleral | 0.37 | Aliphatic aldehyde |
| 2-Methylbutyral | 0.01 | Aliphatic aldehyde |
| Isoamyl alcohol | 0.04 | Aliphatic alcohol |
| Toluene | 0.01 | Simple phenolic |
| Hexanal | 0.01 | Aliphatic aldehyde |
| Isovaleric acid | 0.03 | Aliphatic acid |
| Hexanol | 0.02 | Aliphatic alcohol |
| Isoamyl acetate | 0.01 | Aliphatic ester |
| 2-Methylbutyl acetate | tr | Aliphatic ester |
| Hashishene | 0.05 | Monoterpene |
| Tricyclene | tr | Monoterpene |
| α-Thujene | 0.01 | Monoterpene |
| α-Pinene | 13.59 | Monoterpene |
| Camphepane | 0.12 | Monoterpene |
| α-Fenchene | 0.05 | Monoterpene |
| Thuja-2,4(10)-diene | 0.06 | Monoterpene |
| β-Pinene | 0.32 | Monoterpene |
| Sabinene | tr | Monoterpene |
| trans-meta-Mentha-2,8-diene | 0.02 | Monoterpene |
| 2-Pentylfuran | 0.03 | Furan |
| Myrcene | 0.14 | Monoterpene |
| Pseudolimonene | tr | Monoterpene |
| α-Phellandrene | 0.40 | Monoterpene |
| cis-Dehydroxylinalool oxide | 0.02 | Monoterpenic ether |
| α-Terpinene | 0.09 | Monoterpene |
| para-Cymene | 1.45 | Monoterpene |
| Limonene | 3.31 | Monoterpene |
| 1,8-Cineole | 62.00 | Monoterpenic ether |
| (Z)-β-Ocimene | 0.02 | Monoterpene |
| (E)-β-Ocimene | 0.01 | Monoterpene |
| γ-Terpinene | 0.27 | Monoterpene |
| Unknown | 0.12 | Oxygenated monoterpene |
| cis-Linalool oxide (fur.) | 0.03 | Monoterpenic alcohol |
| Terpinolene | 0.15 | Monoterpene |
| trans-Linalool oxide (fur.) | 0.02 | Monoterpenic alcohol |
| para-Cymenene | 0.18 | Monoterpene |
| α-Pinene oxide | 0.01 | Monoterpenic ether |
| Linalool | 0.04 | Monoterpenic alcohol |
| Unknown | 0.02 | Unknown |
| Isoamyl isovalerate | 0.08 | Aliphatic ester |
| endo-Fenchol | 0.12 | Monoterpenic alcohol |
| α-Campholenal | 0.05 | Monoterpenic aldehyde |
| Nopinone | 0.01 | Normonoterpenic ketone |

| | | |
|---|------|------------------------|
| <i>trans</i> -Pinocarveol | 1.85 | Monoterpenic alcohol |
| Nerol oxide | 0.04 | Aliphatic ether |
| Pinocarvone | 0.50 | Monoterpenic ketone |
| Pinocamphone | 0.05 | Monoterpenic ketone |
| Borneol | 0.13 | Monoterpenic alcohol |
| δ -Terpineol | 0.10 | Monoterpenic alcohol |
| Isopinocamphone | 0.10 | Monoterpenic ketone |
| Terpinen-4-ol | 0.22 | Monoterpenic alcohol |
| Cryptone | 0.02 | Normonoterpenic ketone |
| para-Cymen-8-ol | 0.04 | Monoterpenic alcohol |
| <i>trans</i> -Isocarveol | 0.28 | Monoterpenic alcohol |
| α -Terpineol | 1.12 | Monoterpenic alcohol |
| Myrtenal | 0.01 | Monoterpenic aldehyde |
| Myrtenol | 0.13 | Monoterpenic alcohol |
| <i>cis</i> - α -Phellandrene epoxide (IPP vs Me) | 0.04 | Monoterpenic ether |
| Unknown | 0.02 | Oxygenated monoterpene |
| <i>trans</i> -Carveol | 0.06 | Monoterpenic alcohol |
| <i>cis</i> -Isocarveol | 0.19 | Monoterpenic alcohol |
| Unknown | 0.02 | Oxygenated monoterpene |
| <i>trans</i> - α -Phellandrene epoxide (IPP vs Me) | 0.04 | Monoterpenic ether |
| Myrtenyl formate? | 0.03 | Monoterpenic ester |
| Carvone | 0.05 | Monoterpenic ketone |
| Carvotanacetone | 0.03 | Monoterpenic ketone |
| Unknown | 0.02 | Unknown |
| Geraniol | 0.01 | Monoterpenic alcohol |
| Vitispirane? | 0.01 | Terpenic ether |
| Bornyl acetate | 0.01 | Monoterpenic ester |
| <i>trans</i> -Pinocarvyl acetate | 0.04 | Monoterpenic ester |
| δ -Terpinyl acetate | 0.03 | Monoterpenic ester |
| exo-2-Hydroxycineole acetate | 0.04 | Monoterpenic ester |
| α -Terpinyl acetate | 0.83 | Monoterpenic ester |
| Isoleldene | 0.09 | Sesquiterpene |
| α -Copaene | 0.05 | Sesquiterpene |
| 7-Cubebene | 0.03 | Sesquiterpene |
| Geranyl acetate | 0.03 | Monoterpenic ester |
| Unknown | 0.04 | Sesquiterpene |
| α -Gurjunene | 0.26 | Sesquiterpene |
| Unknown | 0.08 | Sesquiterpene |
| β -Caryophyllene | 0.09 | Sesquiterpene |
| γ -Maaliene | 0.12 | Sesquiterpene |
| β -Gurjunene | 0.26 | Sesquiterpene |
| α -Maaliene | 0.04 | Sesquiterpene |
| Aromadendrene | 4.88 | Sesquiterpene |
| Selina-5,11-diene | 0.15 | Sesquiterpene |
| α -Humulene | 0.06 | Sesquiterpene |
| allo-Aromadendrene | 1.08 | Sesquiterpene |
| Valeren-4,7(11)-diene | 0.02 | Sesquiterpene |
| γ -Gurjunene | 0.07 | Sesquiterpene |
| Unknown | 0.04 | Sesquiterpene |
| γ -Muurolene | 0.04 | Sesquiterpene |
| β -Selinene | 0.11 | Sesquiterpene |
| allo-Aromadendr-9-ene | 0.10 | Sesquiterpene |

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| | | |
|---------------------------|---------------|------------------------|
| Viridiflorene | 0.49 | Sesquiterpene |
| α -Muurolene | 0.03 | Sesquiterpene |
| γ -Cadinene | 0.06 | Sesquiterpene |
| Unknown | 0.05 | Sesquiterpene |
| δ -Cadinene | 0.05 | Sesquiterpene |
| Epiglobulol | 0.19 | Sesquiterpenic alcohol |
| Palustrol | 0.03 | Sesquiterpenic alcohol |
| Maaliol | 0.03 | Sesquiterpenic alcohol |
| Spathulenol | 0.03 | Sesquiterpenic alcohol |
| Globulol | 0.52 | Sesquiterpenic alcohol |
| Viridiflorol | 0.08 | Sesquiterpenic alcohol |
| Cubeban-11-ol | 0.04 | Sesquiterpenic alcohol |
| Ledol | 0.06 | Sesquiterpenic alcohol |
| Rosifoliol | 0.06 | Sesquiterpenic alcohol |
| γ -Eudesmol | 0.02 | Sesquiterpenic alcohol |
| β -Eudesmol | 0.04 | Sesquiterpenic alcohol |
| Unknown | 0.02 | Sesquiterpenic alcohol |
| Consolidated total | 98.83% | |

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

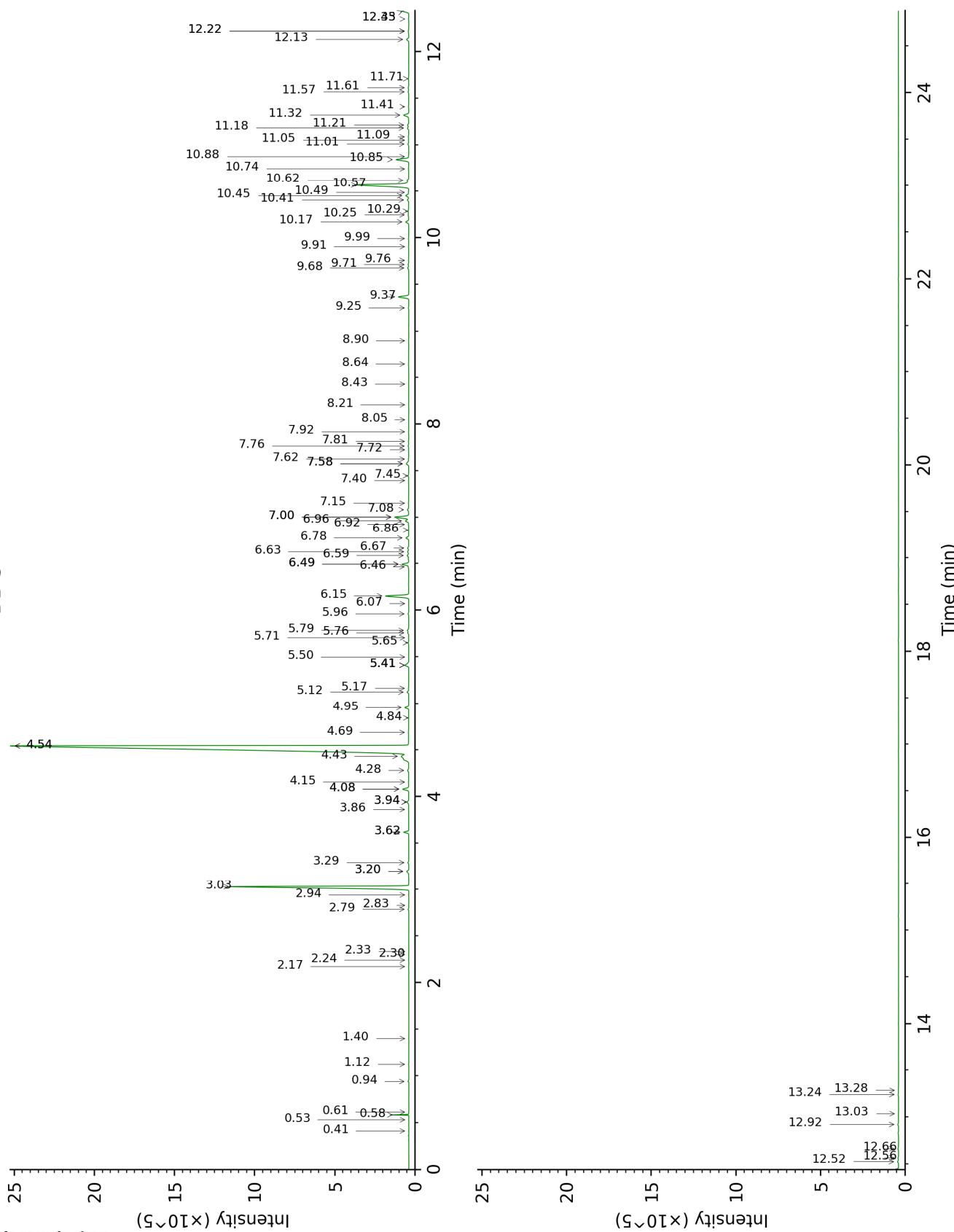
Note: no correction factor was applied

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.

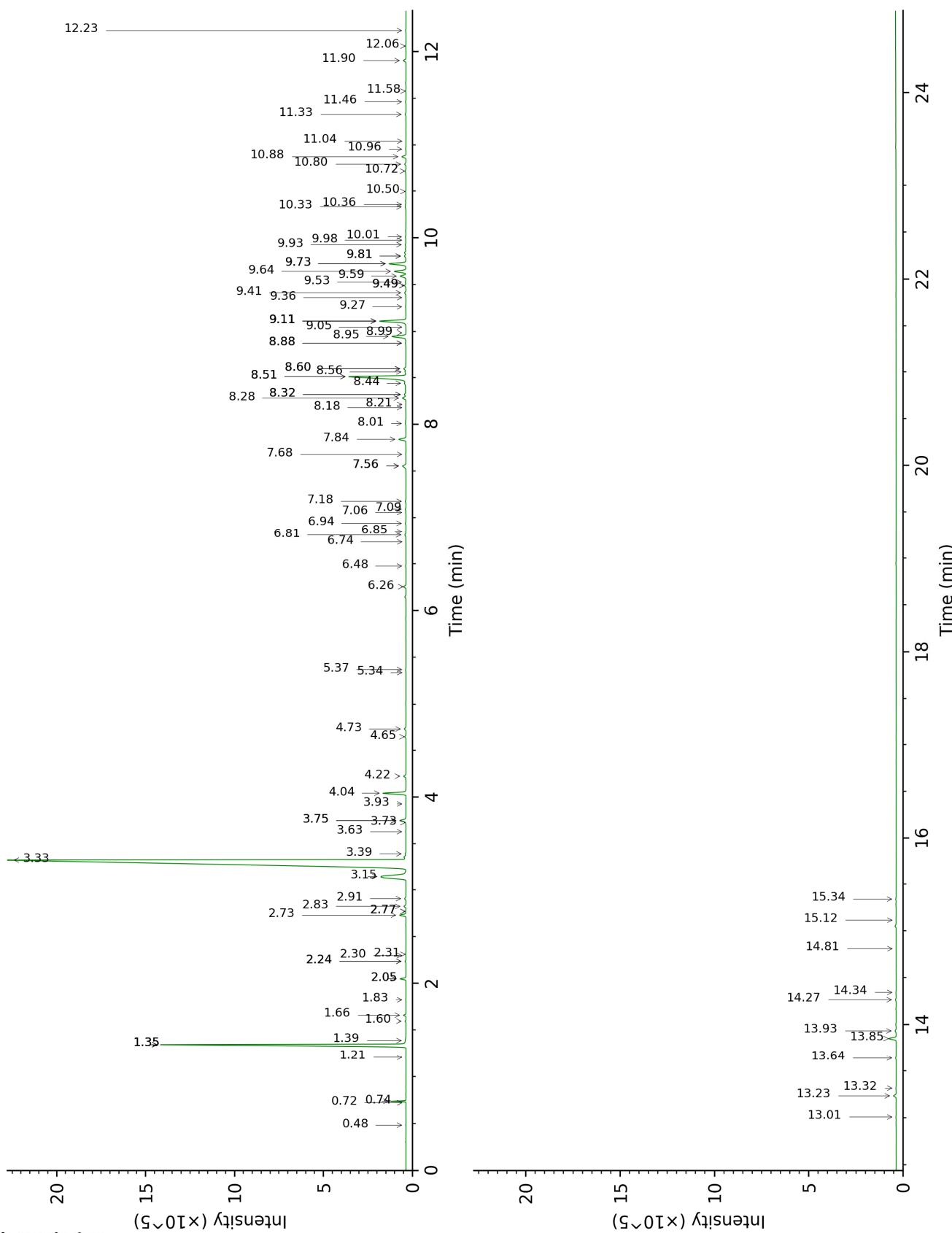
DB-5



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DB-WAX



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FULL ANALYSIS DATA

| Identification | Column DB-5 | | | Column DB-WAX | | |
|---|-------------|------|---------|---------------|------|---------|
| | R.T | R.I | % | R.T | R.I | % |
| Isobutyral | 0.41 | 530 | tr | 0.48 | 784 | 0.01 |
| Isobutanol | 0.53 | 617 | tr | 2.05* | 1066 | 0.32 |
| Isovaleral | 0.58 | 639 | 0.37 | 0.74 | 888 | 0.37 |
| 2-Methylbutyral | 0.61 | 651 | 0.01 | 0.72 | 882 | tr |
| Isoamyl alcohol | 0.94 | 737 | 0.04 | 3.39 | 1180 | 0.05 |
| Toluene | 1.12 | 762 | 0.01 | 1.35*† | 995 | 13.54 |
| Hexanal | 1.40 | 802 | 0.01 | 1.83 | 1044 | 0.01 |
| Isovaleric acid | 2.17 | 867 | 0.03 | 9.53† | 1637 | [0.16] |
| Hexanol | 2.24 | 873 | 0.02 | 5.37 | 1321 | 0.02 |
| Isoamyl acetate | 2.30 | 878 | 0.01 | 2.31 | 1093 | 0.02 |
| 2-Methylbutyl acetate | 2.33 | 881 | tr | 2.30 | 1091 | 0.01 |
| Hashishene | 2.79 | 915 | 0.05 | 1.35*† | 995 | [13.54] |
| Tricyclene | 2.83 | 918 | tr | 1.21 | 972 | 0.01 |
| α-Thujene | 2.94 | 925 | 0.01 | 1.39† | 1001 | [13.54] |
| α-Pinene | 3.03 | 931 | 13.59 | 1.35*† | 995 | [13.54] |
| Camphepane | 3.20* | 942 | 0.17 | 1.66 | 1028 | 0.12 |
| α-Fenchene | 3.20* | 942 | [0.17] | 1.60 | 1022 | 0.05 |
| Thuja-2,4(10)-diene | 3.29 | 948 | 0.06 | 2.24* | 1085 | 0.06 |
| β-Pinene | 3.62* | 970 | 0.34 | 2.05* | 1066 | [0.32] |
| Sabinene | 3.62* | 970 | [0.34] | 2.24* | 1085 | [0.06] |
| trans-meta-Mentha-2,8-diene | 3.86 | 986 | 0.02 | 2.77* | 1130 | 0.03 |
| 2-Pentylfuran | 3.94* | 991 | 0.16 | 3.63 | 1198 | 0.03 |
| Myrcene | 3.94* | 991 | [0.16] | 2.82 | 1134 | 0.14 |
| Pseudolimonene | 4.08* | 1000 | 0.48 | 2.77* | 1130 | [0.03] |
| α-Phellandrene | 4.08* | 1000 | [0.48] | 2.73 | 1127 | 0.40 |
| cis-Dehydroxylinalool oxide | 4.15 | 1005 | 0.02 | 3.73 | 1206 | 0.02 |
| α-Terpinene | 4.28 | 1013 | 0.09 | 2.91 | 1141 | 0.11 |
| para-Cymene | 4.43 | 1023 | 1.45 | 4.04 | 1229 | 1.45 |
| Limonene | 4.54* | 1030 | 65.41 | 3.15 | 1160 | 3.31 |
| 1,8-Cineole | 4.54* | 1030 | [65.41] | 3.33 | 1174 | 62.00 |
| (Z)-β-Ocimene | 4.69 | 1039 | 0.02 | 3.75* | 1207 | 0.43 |
| (E)-β-Ocimene | 4.84 | 1048 | 0.01 | 3.93 | 1220 | 0.01 |
| γ-Terpinene | 4.95 | 1056 | 0.27 | 3.75* | 1207 | [0.43] |
| Unknown [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)] | 5.12 | 1066 | 0.12 | 4.73 | 1280 | 0.12 |
| cis-Linalool oxide (fur.) | 5.16 | 1069 | 0.03 | 6.48 | 1402 | 0.03 |
| Terpinolene | 5.41* | 1085 | 0.39 | 4.22 | 1242 | 0.15 |
| trans-Linalool oxide (fur.) | 5.41* | 1085 | [0.39] | 6.85 | 1430 | 0.02 |

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|--|-------|------|--------|--------|------|--------|
| para-Cymene | 5.41* | 1085 | [0.39] | 6.26 | 1386 | 0.18 |
| α-Pinene oxide | 5.50 | 1090 | 0.01 | 5.34 | 1319 | tr |
| Linalool | 5.65 | 1100 | 0.04 | 8.01 | 1517 | 0.05 |
| Unknown [m/z 43, 59 (37), 79 (33), 91 (32), 119 (31)...] | 5.71 | 1103 | 0.02 | 8.99 | 1593 | 0.01 |
| Isoamyl isovalerate | 5.76 | 1107 | 0.08 | 4.65 | 1274 | 0.08 |
| endo-Fenchol | 5.78 | 1108 | 0.12 | 8.32*† | 1541 | 0.15 |
| α-Campholenal | 5.96 | 1120 | 0.05 | 6.94 | 1436 | 0.05 |
| Nopinone | 6.07 | 1127 | 0.01 | 8.18 | 1530 | 0.02 |
| trans-Pinocarveol | 6.15 | 1132 | 1.85 | 9.11* | 1603 | 1.92 |
| Nerol oxide | 6.46 | 1152 | 0.04 | 6.74 | 1421 | 0.01 |
| Pinocarvone | 6.49* | 1154 | 0.53 | 7.84 | 1504 | 0.50 |
| Pinocamphone | 6.49* | 1154 | [0.53] | 7.18 | 1454 | 0.05 |
| Borneol | 6.59 | 1160 | 0.13 | 9.73* | 1653 | 1.25 |
| δ-Terpineol | 6.63 | 1163 | 0.10 | 9.42 | 1628 | 0.11 |
| Isopinocamphone | 6.67 | 1166 | 0.10 | 7.56* | 1482 | 0.33 |
| Terpinen-4-ol | 6.78 | 1173 | 0.22 | 8.51* | 1556 | 5.06 |
| Cryptone | 6.86 | 1178 | 0.02 | 9.11* | 1603 | [1.92] |
| para-Cymen-8-ol | 6.92 | 1182 | 0.04 | 11.46 | 1799 | 0.04 |
| trans-Isocarveol | 6.96 | 1185 | 0.28 | 10.88 | 1749 | 0.28 |
| α-Terpineol | 7.00* | 1188 | 1.13 | 9.73* | 1653 | [1.25] |
| Myrtenal | 7.00* | 1188 | [1.13] | 8.60*† | 1562 | 0.18 |
| Myrtenol | 7.08 | 1193 | 0.13 | 10.80 | 1742 | 0.09 |
| cis-α-Phellandrene epoxide (IPP vs Me) | 7.15 | 1198 | 0.04 | 10.96 | 1756 | 0.02 |
| Unknown [m/z 107, 79 (99), 91 (57), 94 (54), 135 (44), 150 (44)] | 7.40 | 1214 | 0.02 | | | |
| trans-Carveol | 7.45 | 1217 | 0.06 | 11.33 | 1787 | 0.06 |
| cis-Isocarveol | 7.58* | 1226 | 0.27 | 11.90 | 1838 | 0.19 |
| Unknown [m/z 43, 135 (82), 91 (68), 107 (58), 79 (55), 150 (49)] | 7.58* | 1226 | [0.27] | 9.81* | 1660 | 0.13 |
| trans-α-Phellandrene epoxide (IPP vs Me) | 7.62 | 1230 | 0.04 | 12.06 | 1852 | 0.03 |
| Myrtenyl formate? | 7.72 | 1236 | 0.03 | 8.88* | 1584 | 0.05 |
| Carvone | 7.76 | 1239 | 0.05 | 9.93 | 1670 | 0.07 |
| Carvotanacetone | 7.81 | 1243 | 0.03 | 9.36 | 1623 | 0.01 |
| Unknown [m/z 43, 97 (69), 107 (46), 41 (28), 55 (21), 109 (20)...] | 7.92 | 1250 | 0.02 | 11.04 | 1763 | 0.01 |
| Geraniol | 8.05 | 1259 | 0.01 | 11.58 | 1809 | 0.03 |
| Vitispirane? | 8.21 | 1270 | 0.01 | 7.68 | 1492 | 0.02 |

| | | | | | | |
|---|-------|------|------|--------|------|--------|
| Bornyl acetate | 8.43 | 1285 | 0.01 | 8.21 | 1533 | 0.01 |
| trans-Pinocarvyl acetate | 8.64 | 1300 | 0.04 | 9.05 | 1598 | 0.01 |
| δ-Terpinyl acetate | 8.90 | 1314 | 0.03 | 9.11* | 1603 | [1.92] |
| exo-2-Hydroxcineole acetate | 9.25 | 1338 | 0.04 | 10.01 | 1676 | 0.05 |
| α-Terpinyl acetate | 9.37 | 1347 | 0.83 | 9.64 | 1646 | 0.86 |
| Isoleldene | 9.68 | 1369 | 0.09 | 6.81 | 1427 | 0.10 |
| α-Copaene | 9.71 | 1371 | 0.05 | 7.09 | 1448 | 0.05 |
| 7-Cubebene | 9.76 | 1374 | 0.03 | 7.06 | 1445 | 0.02 |
| Geranyl acetate | 9.91 | 1385 | 0.03 | 10.50 | 1716 | 0.03 |
| Unknown [m/z 93, 122 (98), 161 (98), 107 (86), 95 (46), 105 (72)... 204 (34)] | 9.99 | 1391 | 0.04 | | | |
| α-Gurjunene | 10.17 | 1403 | 0.26 | 7.56* | 1482 | [0.33] |
| Unknown [m/z 119, 107 (86), 105 (85), 93 (78), 189 (66), 81 (65), 121 (64)... 204 (23)] | 10.25 | 1409 | 0.08 | | | |
| β-Caryophyllene | 10.28 | 1412 | 0.09 | 8.32*† | 1541 | [0.15] |
| γ-Maaliene | 10.41 | 1421 | 0.12 | 8.44 | 1550 | 0.16 |
| β-Gurjunene | 10.45 | 1424 | 0.26 | 8.28 | 1538 | 0.28 |
| α-Maaliene | 10.49 | 1427 | 0.04 | 8.56 | 1560 | 0.07 |
| Aromadendrene | 10.57 | 1433 | 4.88 | 8.51* | 1556 | [5.06] |
| Selina-5,11-diene | 10.62 | 1437 | 0.15 | 8.60*† | 1562 | [0.18] |
| α-Humulene | 10.74 | 1446 | 0.06 | 9.26 | 1615 | 0.04 |
| allo-Aromadendrene | 10.84 | 1454 | 1.08 | 8.95 | 1590 | 1.07 |
| Valeren-4,7(11)-diene | 10.88 | 1456 | 0.02 | 8.88* | 1584 | [0.05] |
| γ-Gurjunene | 11.01 | 1466 | 0.07 | 9.11* | 1603 | [1.92] |
| Unknown [m/z 189, 145 (96), 105 (87), 131 (87), 133 (73), 160 (70)... 204 (44)] | 11.05 | 1469 | 0.04 | | | |
| γ-Murolene | 11.09 | 1472 | 0.04 | 9.49*† | 1634 | 0.16 |
| β-Selinene | 11.18 | 1479 | 0.11 | 9.81* | 1660 | [0.13] |
| allo-Aromadendr-9-ene | 11.21 | 1481 | 0.10 | 9.49*† | 1634 | [0.16] |
| Viridiflorene | 11.32 | 1489 | 0.49 | 9.59 | 1642 | 0.44 |
| α-Murolene | 11.41 | 1496 | 0.03 | 9.98 | 1673 | 0.02 |
| γ-Cadinene | 11.57 | 1508 | 0.06 | 10.33 | 1702 | 0.07 |
| Unknown [m/z 159, 145 (91), 131 (67), 105 (46), 202 (43)] | 11.61 | 1511 | 0.05 | 10.72 | 1736 | 0.06 |
| δ-Cadinene | 11.71 | 1519 | 0.05 | 10.36 | 1705 | 0.04 |

| | | | | | | |
|---|---------------|------|--------|---------------|------|------|
| Epiglobulol | 12.13 | 1552 | 0.19 | 13.23 | 1958 | 0.19 |
| Palustrol | 12.22* | 1559 | 0.07 | 12.23 | 1866 | 0.03 |
| Maaliol | 12.22* | 1559 | [0.07] | 13.01 | 1937 | 0.03 |
| Spathulenol | 12.35 | 1569 | 0.03 | 14.34 | 2063 | 0.03 |
| Globulol | 12.43 | 1576 | 0.52 | 13.85 | 2016 | 0.51 |
| Viridiflorol | 12.52 | 1583 | 0.08 | 13.93 | 2024 | 0.08 |
| Cubeban-11-ol | 12.56 | 1586 | 0.04 | 13.64 | 1995 | 0.05 |
| Ledol | 12.66 | 1594 | 0.06 | 13.32 | 1966 | 0.03 |
| Rosifoliol | 12.92 | 1614 | 0.06 | 14.27 | 2056 | 0.06 |
| γ -Eudesmol | 13.03 | 1624 | 0.02 | 14.81 | 2109 | 0.01 |
| β -Eudesmol | 13.24 | 1641 | 0.04 | 15.34 | 2162 | 0.04 |
| Unknown cadinol analog II [m/z 95, 121 (73), 43 (57), 79 (43), 161 (43), 109 (40)... 204 (35), 222 (2)] | 13.28 | 1644 | 0.02 | 15.12 | 2139 | 0.03 |
| Total identified | 98.70% | | | 98.22% | | |
| Total reported | 99.11% | | | 98.45% | | |

*: 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