**Date :** 2026-02-23

# *Certificate of Analysis - GC Profiling*

## *Sample Identification*

**Internal code :** 25L16-PTH06
**Customer Identification :** Blue Cypress - Australia - BG0113R
**Type :** Essential Oil
**Source :** *Callitris intratropica*
**Customer :** Plant Therapy

Checked an 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*Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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 2025-12-18 to make a correction in the sample identification section.



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 :** 2025-12-17

## *Physicochemical data*

**Refractive index :** 1.5057 ± 0.0003 (20 °C)
**Method :** PC-MAT-016 - Measure of the refractive index of a liquid.
**Analyst :** Cindy Caron B. Sc.
**Date :** 2025-12-16

## *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 |
|---|---|---|
| Toluene | 0.01 | Simple phenolic |
| Furfural | 0.03 | Furan |
| Tricyclene | 0.02 | Monoterpene |
| α-Pinene | 0.26 | Monoterpene |
| Camphene | 0.03 | Monoterpene |
| α-Fenchene | 0.01 | Monoterpene |
| Thuja-2,4(10)-diene | 0.01 | Monoterpene |
| Sabinene | tr | Monoterpene |
| β-Pinene | 0.01 | Monoterpene |
| Unknown | 0.01 | Monoterpene |
| Myrcene | 0.01 | Monoterpene |
| α-Phellandrene | 0.01 | Monoterpene |
| Δ3-Carene | 0.17 | Monoterpene |
| α-Terpinene | 0.01 | Monoterpene |
| *para*-Cymene | 0.06 | Monoterpene |
| Limonene | 0.08 | Monoterpene |
| 1,8-Cineole | 0.03 | Monoterpenic ether |
| β-Phellandrene | 0.01 | Monoterpene |
| γ-Terpinene | 0.01 | Monoterpene |
| Unknown | 0.03 | Oxygenated monoterpene |
| *meta*-Cymenene | 0.06 | Monoterpene |
| Isoterpinolene | 0.01 | Monoterpene |
| Terpinolene | 0.02 | Monoterpene |
| *para*-Cymenene | 0.08 | Monoterpene |
| endo-Fenchol | 0.02 | Monoterpenic alcohol |
| α-Campholenal | 0.02 | Monoterpenic aldehyde |
| *trans*-Pinocarveol | 0.11 | Monoterpenic alcohol |
| Camphor | 0.03 | Monoterpenic ketone |
| *meta*-Mentha-4,6-dien-8-ol | 0.02 | Monoterpenic alcohol |
| Isoborneol | 0.01 | Monoterpenic alcohol |
| Pinocamphone | 0.06 | Monoterpenic ketone |
| Pinocarvone | 0.02 | Monoterpenic ketone |
| Borneol | 0.12 | Monoterpenic alcohol |
| α-Phellandren-8-ol | 0.03 | Monoterpenic alcohol |
| Isopinocamphone | 0.02 | Monoterpenic ketone |
| Terpinen-4-ol | 0.03 | Monoterpenic alcohol |
| *meta*-Cymen-8-ol | 0.01 | Monoterpenic alcohol |
| *para*-Cymen-8-ol | 0.01 | Monoterpenic alcohol |
| Unknown | 0.28 | Oxygenated monoterpene |
| α-Terpineol | 0.13 | Monoterpenic alcohol |

| | | |
|---|---|---|
| Myrtenal | 0.11 | Monoterpenic aldehyde |
| Myrtenol | 0.09 | Monoterpenic alcohol |
| Verbenone | 0.26 | Monoterpenic ketone |
| *trans*-Carveol | 0.01 | Monoterpenic alcohol |
| *cis*-Carveol | 0.11 | Monoterpenic alcohol |
| Unknown | 0.24 | Unknown |
| Unknown | 0.02 | Oxygenated monoterpene |
| Unknown | 0.11 | Unknown |
| Car-3-en-2-one | 0.05 | Monoterpenic ketone |
| Geraniol | 0.06 | Monoterpenic alcohol |
| Phellandral | 0.03 | Monoterpenic aldehyde |
| (*E*)-Anethole | 0.01 | Phenylpropanoid |
| Cuminol | 0.02 | Monoterpenic alcohol |
| Methyl myrtenate | 0.04 | Monoterpenic ester |
| δ-Elemene | 0.04 | Sesquiterpene |
| Unknown | 0.36 | Unknown |
| Myrtenoic acid | 2.10 | Monoterpenic acid |
| β-Patchoulene | 0.01 | Sesquiterpene |
| *cis*-β-Elemene | 0.11 | Sesquiterpene |
| β-Elemene | 1.19 | Sesquiterpene |
| C. intratropica acid I | 0.11 | Monoterpenic acid |
| β-Caryophyllene | 0.09 | Sesquiterpene |
| C. intratropica acid II | 0.51 | Monoterpenic acid |
| *cis*-Thujopsene | 0.17 | Sesquiterpene |
| Unknown | 0.12 | Unknown |
| α-Guaiene | 1.83 | Sesquiterpene |
| β-Barbatene | 0.10 | Sesquiterpene |
| α-Humulene | 0.19 | Sesquiterpene |
| C. intratropica acid III | 0.37 | Monoterpenic acid |
| Unknown | 0.14 | Oxygenated sesquiterpene |
| 4,5-diepi-Aristolochene | 0.08 | Sesquiterpene |
| Eudesma-1,4(15),11-triene | 1.92 | Sesquiterpene |
| Selina-4,11-diene | 2.45 | Sesquiterpene |
| Liguloxide analog II | 4.34 | Sesquiterpenic ether |
| β-Selinene | 3.84 | Sesquiterpene |
| δ-Selinene | 0.25 | Sesquiterpene |
| α-Selinene | 3.32 | Sesquiterpene |
| 4-epi-*cis*-Dihydroagarofuran | 1.46 | Sesquiterpenic ether |
| δ-Guaiene | 2.12 | Sesquiterpene |
| 10,11-Epoxyguai-4-ene | 0.37 | Sesquiterpenic ether |
| 10,11-Epoxyguai-1-ene | 0.56 | Sesquiterpenic ether |
| Selina-4(15),7(11)-diene | 0.41 | Sesquiterpene |
| Selina-4,7(11)-diene | 0.42 | Sesquiterpene |
| Selina-3,7(11)-diene | 0.51 | Sesquiterpene |
| α-Elemol | 1.95 | Sesquiterpenic alcohol |

| | | |
|---|---|---|
| Unknown | 0.84 | Oxygenated sesquiterpene |
| Unknown | 0.19 | Oxygenated sesquiterpene |
| *trans*-5,11-Epoxycalamenene? | 0.11 | Sesquiterpenic ether |
| Unknown | 0.04 | Oxygenated sesquiterpene |
| Guaiol | 11.07 | Sesquiterpenic alcohol |
| Eudes*m*-5-en-11-ol | 0.43 | Sesquiterpenic alcohol |
| 5,7-diepi-α-Eudesmol | 0.19 | Sesquiterpenic alcohol |
| Unknown | 0.76 | Oxygenated sesquiterpene |
| Unknown | 0.23 | Oxygenated sesquiterpene |
| Unknown | 0.14 | Oxygenated sesquiterpene |
| Eremoligenol? | 1.20 | Sesquiterpenic alcohol |
| γ-Eudesmol | 8.49 | Sesquiterpenic alcohol |
| Unknown | 0.46 | Oxygenated sesquiterpene |
| Unknown | 0.33 | Oxygenated sesquiterpene |
| Hinesol | 0.24 | Sesquiterpenic alcohol |
| β-Eudesmol | 5.21 | Sesquiterpenic alcohol |
| Unknown | 1.02 | Oxygenated sesquiterpene |
| Unknown | 2.30 | Oxygenated sesquiterpene |
| α-Eudesmol | 1.87 | Sesquiterpenic alcohol |
| Unknown | 0.71 | Unknown |
| Selin-11-en-4α-ol | 0.54 | Sesquiterpenic alcohol |
| Hanamyol | 0.22 | Sesquiterpenic alcohol |
| Bulnesol | 9.08 | Sesquiterpenic alcohol |
| Unknown | 0.45 | Oxygenated sesquiterpene |
| Unknown | 0.21 | Oxygenated sesquiterpene |
| Unknown | 0.14 | Oxygenated sesquiterpene |
| Unknown | 0.28 | Oxygenated sesquiterpene |
| Unknown | 0.22 | Oxygenated sesquiterpene |
| Unknown | 0.18 | Oxygenated sesquiterpene |
| Unknown | 0.12 | Lignan |
| Unknown | 0.05 | Oxygenated sesquiterpene |
| Chamazulene | 0.15 | Azulene |
| Unknown | 0.04 | Oxygenated sesquiterpene |
| Unknown | 0.35 | Oxygenated sesquiterpene |
| γ-Costol | 1.36 | Sesquiterpenic alcohol |
| Unknown | 0.09 | Oxygenated sesquiterpene |
| β-Costol | 0.73 | Sesquiterpenic alcohol |
| α-Costol | 0.84 | Sesquiterpenic alcohol |
| Guaiazulene | 0.01 | Azulene |
| Methyl γ-costate | 0.28 | Sesquiterpenic ester |
| Methyl β-costate | 0.02 | Sesquiterpenic ester |
| Methyl α-costate? | 0.17 | Sesquiterpenic ester |
| Callitrin isomer | 0.17 | Sesquiterpenic lactone |
| Callitrin | 0.83 | Sesquiterpenic lactone |
| Callitrisin analog I | 0.65 | Sesquiterpenic lactone |

| | | |
|---|---|---|
| Unknown | 0.16 | Unknown |
| Dihydrocolumellarin | 5.85 | Sesquiterpenic lactone |
| Unknown | 0.24 | Unknown |
| Unknown | 0.10 | Unknown |
| Unknown | 0.16 | Oxygenated sesquiterpene |
| Unknown | 0.01 | Sesquiterpenic lactone |
| Unknown | 0.17 | Sesquiterpenic lactone |
| Callitrisin | 0.23 | Sesquiterpenic lactone |
| Unknown | 0.59 | Unknown |
| Callitrisin analog II | 0.11 | Sesquiterpenic lactone |
| Columellarin | 0.25 | Sesquiterpenic lactone |
| Unknown | 0.08 | Sesquiterpenic lactone |
| Dihydrocallitrisin | 0.08 | Sesquiterpenic lactone |
| Unknown | 0.06 | Sesquiterpenic lactone |
| Sandaracopimarinal? | 0.03 | Diterpenic aldehyde |
| 6,7-Dehydroferruginol? | 0.03 | Diterpenic alcohol |
| **Consolidated total** | **95.67** | |

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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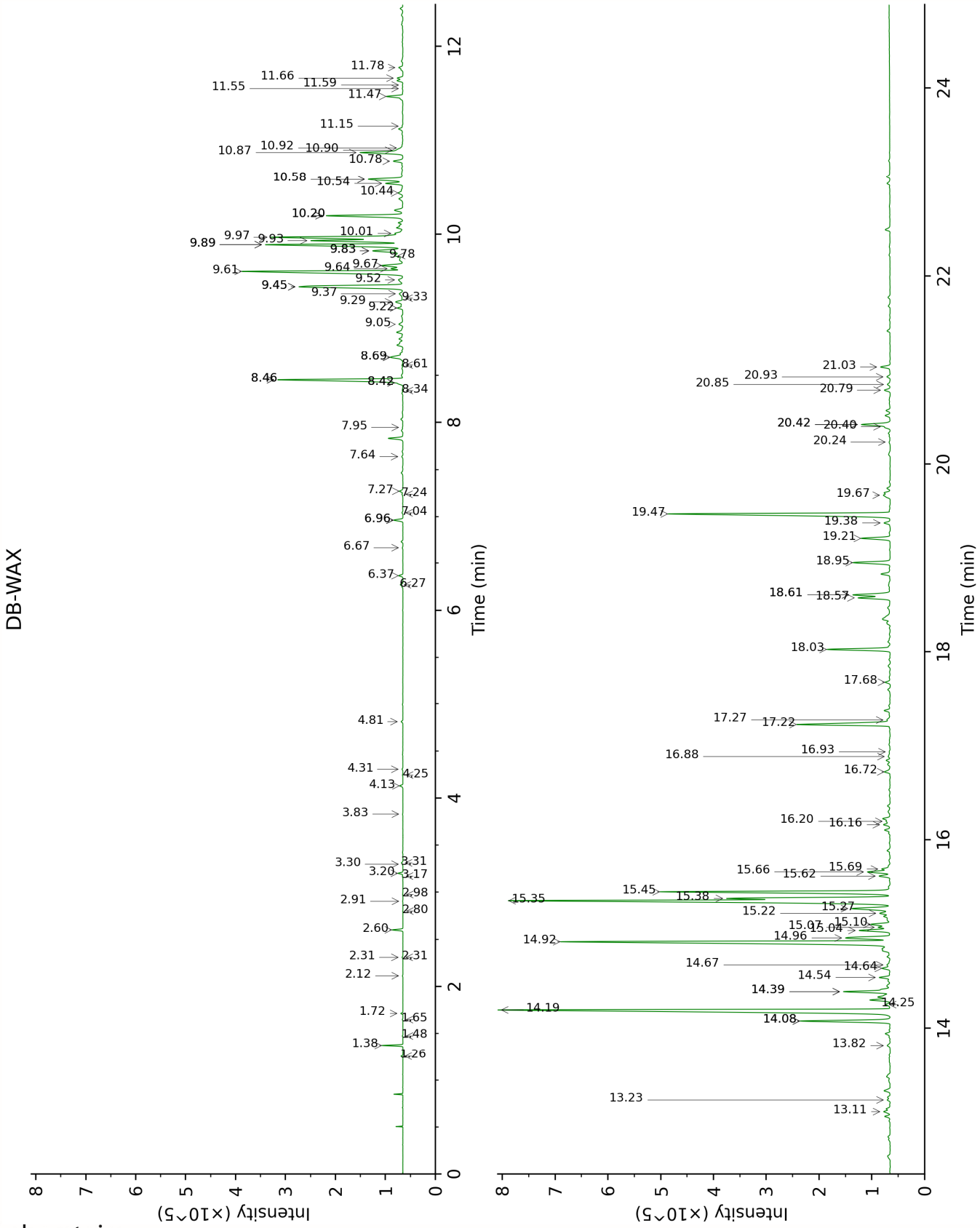
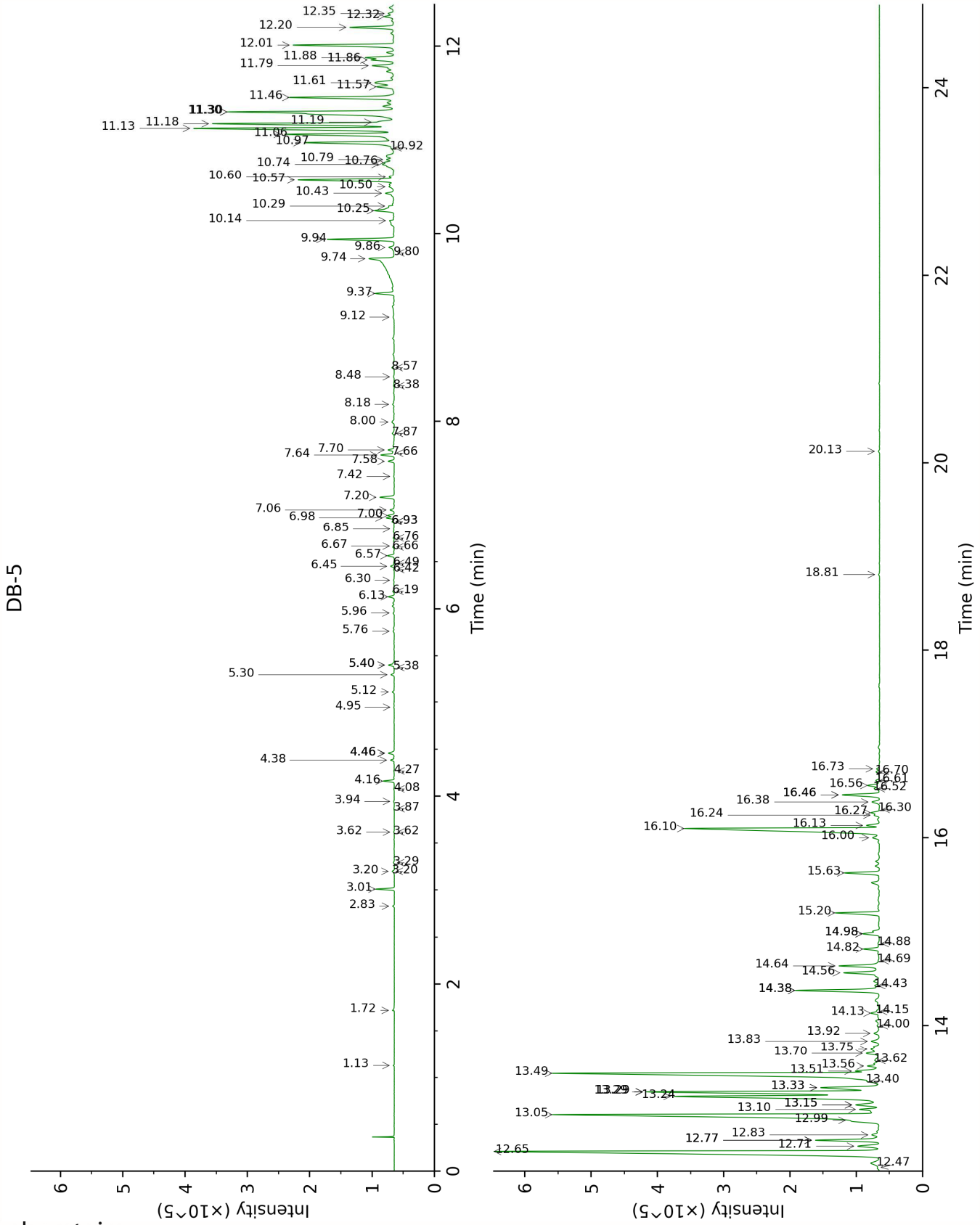

DB-WAX
Intensity (×10^5)
Time (min)
11.78
11.66
11.59
11.55
11.47
11.15
10.92
10.90
10.87
10.78
10.58
10.54
10.44
10.20
10.01
9.97
9.93
9.89
9.83
9.78
9.67
9.64
9.61
9.52
9.45
9.37
9.33
9.29
9.22
9.05
8.69
8.61
8.46
8.42
8.34
7.95
7.64
7.27
7.24
7.04
6.96
6.67
6.37
6.27
4.81
4.31
4.25
4.13
3.83
3.31
3.30
3.20
3.17
2.98
2.91
2.80
2.60
2.31
2.31
2.12
1.72
1.65
1.48
1.38
1.26
21.03
20.93
20.85
20.79
20.42
20.40
20.24
19.67
19.47
19.38
19.21
18.95
18.61
18.57
18.03
17.68
17.27
17.22
16.93
16.88
16.72
16.20
16.16
15.69
15.66
15.62
15.45
15.38
15.35
15.27
15.22
15.10
15.07
15.04
14.96
14.92
14.67
14.64
14.54
14.39
14.25
14.19
14.08
13.82
13.23
13.11


DB-5
Intensity (×10^5)
Time (min)
12.35
12.32
12.20
12.01
11.88
11.86
11.79
11.61
11.57
11.46
11.30
11.18
11.13
11.19
11.06
10.97
10.92
10.74
10.79
10.76
10.60
10.57
10.43
10.50
10.29
10.25
10.14
9.94
9.86
9.80
9.74
9.37
9.12
8.57
8.48
8.38
8.18
8.00
7.87
7.64
7.70
7.66
7.58
7.42
7.20
7.06
6.98
7.00
6.93
6.85
6.76
6.67
6.66
6.57
6.49
6.45
6.42
6.30
6.19
6.13
5.96
5.76
5.40
5.38
5.30
5.12
4.95
4.46
4.38
4.27
4.16
4.08
3.94
3.87
3.62
3.62
3.29
3.20
3.20
3.01
2.83
1.72
1.13
20.13
18.81
16.73
16.70
16.61
16.56
16.52
16.46
16.38
16.30
16.24
16.27
16.13
16.10
16.00
15.63
15.20
14.98
14.88
14.82
14.69
14.64
14.56
14.43
14.38
14.15
14.13
14.00
13.92
13.83
13.75
13.70
13.62
13.56
13.51
13.49
13.40
13.33
13.24
13.15
13.10
13.05
12.99
12.83
12.77
12.71
12.65
12.47

*FULL ANALYSIS DATA*

| | Column DB-WAX | | | Column DB-5 | | |
|---|---|---|---|---|---|---|
| **Toluene** | 1.48 | 1003.1 | 0.01 | 1.13 | 759.4 | 0.01 |
| Furfural | 6.66 | 1410.8 | 0.02 | 1.72 | 828.8 | 0.03 |
| Tricyclene | 1.26 | 971.7 | 0.02 | 2.83 | 918.9 | 0.02 |
| α-Pinene | 1.38 | 991.2 | 0.25 | 3.01 | 931.1 | 0.26 |
| Camphene | 1.72 | 1026.9 | 0.03 | 3.20* | 943.8 | [0.04] |
| α-Fenchene | 1.65 | 1020.3 | 0.01 | 3.20* | 943.8 | [0.04] |
| Thuja-2,4(10)-diene | 2.31* | 1086.1 | [0.01] | 3.29 | 949.9 | 0.01 |
| Sabinene | 2.31* | 1086.1 | [0.01] | 3.62* | 971.8 | [0.01] |
| β-Pinene | 2.12 | 1066.6 | 0.01 | 3.62* | 971.8 | [0.01] |
| Unknown ABBA II [m/z 91, 119 (65), 109 (51), 134 (47)] | 3.17 | 1156.2 | 0.01 | 3.87 | 988.5 | 0.01 |
| Myrcene | 2.91 | 1135.1 | 0.01 | 3.94 | 993.8 | 0.01 |
| α-Phellandrene | 2.80 | 1126.9 | tr | 4.08 | 1002.7 | 0.01 |
| Δ3-Carene | 2.60 | 1111.2 | 0.16 | 4.16 | 1008.1 | 0.17 |
| α-Terpinene | 2.98 | 1140.7 | 0.01 | 4.27 | 1014.9 | 0.01 |
| *para*-Cymene | 4.13 | 1229.5 | 0.06 | 4.38 | 1022.2 | 0.06 |
| Limonene | 3.20 | 1158.5 | 0.08 | 4.46* | 1026.9 | [0.12] |
| 1,8-Cineole | 3.31 | 1167.2 | 0.03 | 4.46* | 1026.9 | [0.12] |
| β-Phellandrene | 3.30 | 1166.1 | 0.01 | 4.46* | 1026.9 | [0.12] |
| γ-Terpinene | 3.83 | 1207.4 | 0.01 | 4.95 | 1058.0 | 0.01 |
| Unknown PIMA I [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)] | 4.81 | 1279.7 | 0.03 | 5.12 | 1068.8 | 0.03 |
| *meta*-Cymenene | 6.27 | 1382.3 | 0.05 | 5.30 | 1080.5 | 0.06 |
| Isoterpinolene | 4.24 | 1237.9 | 0.01 | 5.38 | 1085.4 | 0.01 |
| Terpinolene | 4.31 | 1242.4 | 0.02 | 5.40* | 1087.0 | [0.10] |
| *para*-Cymenene | 6.37 | 1389.2 | 0.08 | 5.40* | 1087.0 | [0.10] |
| endo-Fenchol | 8.42* | 1542.2 | [0.11] | 5.76 | 1110.1 | 0.02 |
| α-Campholenal | 7.04 | 1438.6 | 0.02 | 5.96 | 1122.7 | 0.02 |
| *trans*-Pinocarveol | 9.22 | 1604.2 | 0.11 | 6.13 | 1133.9 | 0.11 |
| Camphor | 7.24 | 1453.1 | 0.02 | 6.19 | 1137.7 | 0.03 |
| *meta*-Mentha-4,6-dien-8-ol | 9.33 | 1612.5 | 0.02 | 6.30 | 1145.2 | 0.02 |
| Isoborneol | 9.37 | 1616.3 | 0.12 | 6.42 | 1152.7 | 0.01 |
| Pinocamphone | 7.27 | 1455.5 | 0.07 | 6.45 | 1154.9 | 0.06 |
| Pinocarvone | 7.95 | 1505.8 | 0.01 | 6.49 | 1157.0 | 0.02 |
| Borneol | 9.83* | 1652.8 | [0.86] | 6.57 | 1162.3 | 0.12 |
| α-Phellandren-8-ol | 10.20* | 1682.8 | [1.80] | 6.66 | 1168.3 | 0.03 |
| Isopinocamphone | 7.64 | 1482.5 | 0.03 | 6.67 | 1169.0 | 0.02 |
| Terpinen-4-ol | 8.61 | 1556.7 | 0.02 | 6.76 | 1174.6 | 0.03 |

| | | | | | | |
|---|---|---|---|---|---|---|
| *meta*-Cymen-8-ol | 11.55 | 1796.7 | 0.01 | 6.85 | 1180.9 | 0.01 |
| *para*-Cymen-8-ol | 11.59 | 1800.0 | 0.01 | 6.93* | 1186.2 | [0.04] |
| Unknown JUVI II [m/z 93, 59 (85), 81 (36), 92 (35), 43 (34), 121 (20), 136 (16)...] | 9.78 | 1648.8 | 0.28 | 6.93* | 1186.2 | [0.04] |
| α-Terpineol | 9.83* | 1652.8 | [0.86] | 6.98 | 1189.0 | 0.13 |
| Myrtenal | 8.69* | 1563.1 | [0.41] | 7.00 | 1190.6 | 0.11 |
| Myrtenol | 10.90 | 1741.4 | 0.12 | 7.06 | 1194.5 | 0.09 |
| Verbenone | 9.64 | 1637.7 | 0.23 | 7.20 | 1203.3 | 0.26 |
| *trans*-Carveol | 11.47 | 1789.5 | 0.40 | 7.42 | 1218.3 | 0.01 |
| *cis*-Carveol | 11.78 | 1816.3 | 0.10 | 7.58 | 1229.2 | 0.11 |
| Unknown CAIN XLVIII [m/z 67, 81 (74), 121 (68), 41 (64), 123 (58), 69 (58)...] | | | | 7.64 | 1233.9 | 0.24 |
| Unknown CAIN XXXVIII [m/z 79, 107 (80), 121 (74), 91 (71), 150 (63)] | 10.92 | 1743.4 | 0.03 | 7.66 | 1235.2 | 0.02 |
| Unknown CAIN XLVII [m/z 107, 79 (75), 91 (59), 150 (51), 77 (48), 93 (37)...] | | | | 7.70 | 1237.5 | 0.11 |
| Car-3-en-2-one | 10.44 | 1702.6 | 0.13 | 7.87 | 1249.5 | 0.05 |
| Geraniol | 11.66 | 1806.5 | 0.12 | 8.00 | 1257.8 | 0.06 |
| Phellandral | 10.01 | 1667.7 | 0.20 | 8.18 | 1270.7 | 0.03 |
| (*E*)-Anethole | 11.15 | 1762.9 | 0.01 | 8.38 | 1284.3 | 0.01 |
| Cuminol | 14.25 | 2043.1 | 0.12 | 8.48 | 1290.8 | 0.02 |
| Methyl myrtenate | 9.52 | 1628.1 | 0.15 | 8.57 | 1297.5 | 0.04 |
| δ-Elemene | 6.96* | 1432.9 | [0.19] | 9.12 | 1332.5 | 0.04 |
| Unknown EUMA VI [m/z 68, 67 (50), 110 (16), 41 (15), 82 (15), 69 (14)...] | | | | 9.37 | 1350.3 | 0.36 |
| Myrtenoic acid | | | | 9.74 | 1376.5 | 2.10 |
| β-Patchoulene | 6.96* | 1432.9 | [0.19] | 9.80 | 1380.8 | 0.01 |
| *cis*-β-Elemene | 8.34 | 1535.9 | 0.02 | 9.86 | 1385.0 | 0.11 |
| β-Elemene | 8.46* | 1544.7 | [2.95] | 9.94 | 1391.1 | 1.19 |
| C. intratropica acid I | | | | 10.14 | 1405.2 | 0.11 |
| β-Caryophyllene | 8.42* | 1542.2 | [0.11] | 10.25*† | 1413.1 | [0.53] |
| C. intratropica acid II | | | | 10.29*† | 1416.7 | [0.07] |
| *cis*-Thujopsene | 8.69* | 1563.1 | [0.41] | 10.43 | 1426.9 | 0.17 |
| Unknown HULU XIII | | | | 10.50 | 1432.1 | 0.12 |

| | | | | | | |
|---|---|---|---|---|---|---|
| [m/z 147, 41 (66), 105 (53), 91 (48), 69 (41), 119 (34)...] | | | | | | |
| α-Guaiene | 8.46* | 1544.7 | [2.95] | 10.57 | 1437.6 | 1.83 |
| β-Barbatene | 9.05 | 1590.5 | 0.10 | 10.60 | 1440.0 | 0.10 |
| α-Humulene | 9.29 | 1609.4 | 0.19 | 10.74*† | 1450.4 | [0.39] |
| C. intratropica acid III | | | | 10.76*† | 1451.9 | [0.17] |
| Unknown CAIN XLIX [m/z 107, 150 (72), 123 (64), 79 (61), 121 (54), 93 (54), 91 (53), 135 (45)... 220? (1)] | | | | 10.80 | 1454.3 | 0.14 |
| 4,5-diepi-Aristolochene | 9.45* | 1622.3 | [3.17] | 10.92 | 1463.7 | 0.08 |
| Eudesma-1,4(15),11-triene | 10.20* | 1682.8 | [1.80] | 10.98 | 1467.8 | 1.92 |
| Selina-4,11-diene | 9.45* | 1622.3 | [3.17] | 11.06 | 1474.5 | 2.45 |
| Liguloxide analog II | 9.61 | 1635.4 | 4.33 | 11.13 | 1479.1 | 4.34 |
| β-Selinene | 9.89* | 1658.1 | [3.38] | 11.18 | 1482.9 | 3.84 |
| δ-Selinene | 9.67 | 1640.4 | 0.51 | 11.19 | 1484.1 | 0.25 |
| α-Selinene | 9.97 | 1664.5 | 3.32 | 11.30*† | 1492.3 | [3.06] |
| 4-epi-*cis*-Dihydroagarofuran | 9.89* | 1658.1 | [3.38] | 11.30*† | 1492.3 | [3.06] |
| δ-Guaiene | 9.93 | 1661.6 | 2.08 | 11.46 | 1503.8 | 2.12 |
| 10,11-Epoxyguai-4-ene | 10.78 | 1731.6 | 0.22 | 11.57 | 1512.7 | 0.37 |
| 10,11-Epoxyguai-1-ene | 10.87 | 1739.3 | 1.02 | 11.61 | 1516.1 | 0.56 |
| Selina-4(15),7(11)-diene | 10.58* | 1714.9 | [0.90] | 11.79 | 1530.4 | 0.41 |
| Selina-4,7(11)-diene | 10.54 | 1711.1 | 0.36 | 11.86 | 1535.2 | 0.42 |
| Selina-3,7(11)-diene | 10.58* | 1714.9 | [0.90] | 11.88 | 1537.1 | 0.51 |
| α-Elemol | 14.08* | 2026.3 | [1.92] | 12.01 | 1547.7 | 1.95 |
| Unknown CAIN VIII [m/z 145, 105 (99), 107 (67), 91 (63), 121 (63), 147 (56), 119 (53)... 218 (37)] | | | | 12.20 | 1562.6 | 0.84 |
| Unknown CAIN IX [m/z 173, 216 (68), 159 (52), 43 (33)] | 13.11 | 1935.6 | 0.17 | 12.32 | 1571.6 | 0.19 |
| *trans*-5,11-Epoxycalamenene? | 13.23 | 1947.0 | 0.06 | 12.35 | 1574.2 | 0.11 |
| Unknown CAIN XI [m/z 43, 91 (87), 121 | 13.82 | 2001.3 | 0.08 | 12.47 | 1584.1 | 0.04 |

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|---|---|---|---|---|---|---|
| (69), 191 (66), 206 (64)... 218 (5)] | | | | | | |
| Guaiol | 14.19 | 2037.6 | 10.66 | 12.65 | 1598.3 | 11.07 |
| Eudes*m*-5-en-11-ol | 14.39* | 2056.3 | [0.97] | 12.71 | 1602.7 | 0.43 |
| 5,7-diepi-α-Eudesmol | 14.64 | 2080.0 | 0.19 | 12.77* | 1607.8 | [1.18] |
| Unknown CAIN XII [m/z 149, 59 (90), 161 (60), 81 (46), 93 (44), 105 (37), 108 (35)... 222? (2)] | | | | 12.77* | 1607.8 | [1.18] |
| Unknown MIAL II [m/z 43, 81 (97), 135 (71), 95 (62), 204 (61), 71 (59), 207 (56)... 222 (3)] | 14.54 | 2070.8 | 0.23 | 12.77* | 1607.8 | [1.18] |
| Unknown CAIN XIV [m/z 43, 91 (90), 107 (84), 191 (68), 206 (63), 161 (61)... 222 (5)] | 14.67 | 2083.6 | 0.08 | 12.83 | 1612.5 | 0.14 |
| Eremoligenol? | 14.96 | 2111.9 | 1.20 | 12.99*† | 1625.5 | [0.57] |
| γ-Eudesmol | 14.92 | 2107.9 | 8.49 | 13.05*† | 1630.4 | [9.09] |
| Unknown MYGA VIII [m/z 105, 161 (51), 91 (36), 59 (30), 147 (29), 189 (24), 204 (23)... 218 (t)] | 15.10 | 2126.3 | 0.47 | 13.10 | 1635.1 | 0.46 |
| Unknown CAIN XV [m/z 59, 161 (53), 81 (47), 204 (40), 107 (36), 95 (33), 93 (33)... 222 (1)] | 14.39* | 2056.3 | [0.97] | 13.15* | 1639.1 | [0.57] |
| Hinesol | 15.07 | 2123.2 | 0.24 | 13.15* | 1639.1 | [0.57] |
| β-Eudesmol | 15.45 | 2160.9 | 4.97 | 13.24* | 1646.6 | [5.21] |
| Unknown CAIN XXXVII [m/z 204, 161 (97), 59 (87), 189 (78), 105 (45)...] | 15.27 | 2143.1 | 1.02 | 13.29* | 1650.6 | [5.20] |
| Unknown CAIN XLI [m/z 81, 79 (81), 93 (79), 91 (72), 105 (67), 67 (55), 119 (52)...] | 17.22 | 2346.5 | 2.30 | 13.29* | 1650.6 | [5.20] |
| α-Eudesmol | 15.38† | 2153.8 | 3.40 | 13.29* | 1650.6 | [5.20] |

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|---|---|---|---|---|---|---|
| Unknown CAIN XXXVI [m/z 214, 161 (86), 173 (82), 172 (79), 199 (75), 189 (75), 204 (70)...] | 15.04 | 2119.8 | 0.71 | 13.33* | 1654.3 | [1.41] |
| Selin-11-en-4α-ol | 15.66 | 2181.9 | 0.54 | 13.33* | 1654.3 | [1.41] |
| Hanamyol | 15.62 | 2177.6 | 0.25 | 13.40 | 1660.0 | 0.22 |
| Bulnesol | 15.35† | 2151.4 | 9.62 | 13.49† | 1667.0 | 8.48 |
| Unknown CAIN XLII [m/z 162, 147 (84), 91 (36), 105 (21), 107 (17)... 220 (t)] | | | | 13.51 | 1669.0 | 0.45 |
| Unknown CAIN XVI [m/z 135, 107 (99), 59 (90), 93 (81), 161 (68), 105 (65)...] | | | | 13.56 | 1673.5 | 0.21 |
| Unknown CAIN XVIII [m/z 91, 121 (98), 79 (94), 93 (90), 105 (81), 81 (74)... 218 (24)] | 15.22 | 2138.1 | 0.26 | 13.62 | 1678.4 | 0.14 |
| Unknown CAIN XIX [m/z 43, 55 (75), 41 (66), 95 (65), 109 (64), 81 (57), 69 (56), 162 (52), 85 (46)... 238 (12)] | 14.08* | 2026.3 | [1.92] | 13.70 | 1684.9 | 0.28 |
| Unknown CAIN XXXV [m/z 95, 107 (98), 93 (97), 69 (93), 67 (91), 79 (91)... 218 (49)... ] | | | | 13.75 | 1688.5 | 0.22 |
| Unknown CAIN XX [m/z 91, 175 (90), 105 (85), 81 (82), 119 (80), 93 (76)... 218 (18)] | 17.68 | 2396.0 | 0.12 | 13.83 | 1695.8 | 0.18 |
| Unknown OCSA IV [m/z 133, 93 (97), 131 (85), 145 (83), 107 (69)...220] | 16.88 | 2309.8 | 0.07 | 13.92 | 1702.9 | 0.12 |
| Unknown AGAR XXIV [m/z 93, 81 (90), 95 (86), 91 (83), 41 (83), 107 (81)... 220 | 17.27 | 2351.6 | 0.09 | 14.00 | 1709.8 | 0.05 |

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|---|---|---|---|---|---|---|
| (29), 238? (4)] | | | | | | |
| Chamazulene | 16.72 | 2292.3 | 0.16 | 14.13 | 1721.5 | 0.15 |
| Unknown CAIN XXI [m/z 137, 91 (76), 41 (69), 159 (65), 105 (62), 173 (57), 79 (54)... 236 (20)] | | | | 14.15 | 1723.1 | 0.04 |
| Unknown CAIN XXII [m/z 91, 105 (86), 93 (67), 79 (63), 119 (60), 159 (63), 77 (52)... 218 (24)] | | | | 14.38* | 1742.5 | [1.72] |
| γ-Costol | 18.03 | 2435.0 | 1.36 | 14.38* | 1742.5 | [1.72] |
| Unknown CAIN XLIII [m/z 91, 105 (89), 79 (84), 93 (77), 107 (67), 189 (64), 145 (62), 119 (61)... 220 (16)...] | | | | 14.43 | 1747.0 | 0.09 |
| β-Costol | 18.58 | 2496.8 | 0.72 | 14.56 | 1758.9 | 0.73 |
| α-Costol | 18.61* | 2500.5 | [0.90] | 14.64 | 1765.2 | 0.84 |
| Guaiazulene | 16.93 | 2315.2 | 0.03 | 14.69 | 1770.0 | 0.01 |
| Methyl γ-costate | 15.69 | 2185.0 | 0.18 | 14.82 | 1780.8 | 0.28 |
| Methyl β-costate | 16.20 | 2237.5 | 0.09 | 14.88 | 1786.1 | 0.02 |
| Methyl α-costate? | 16.16 | 2233.8 | 0.17 | 14.98* | 1795.0 | [0.34] |
| Callitrin isomer | 18.61* | 2500.5 | [0.90] | 14.98* | 1795.0 | [0.34] |
| Callitrin | 18.95 | 2540.1 | 0.86 | 15.20 | 1814.7 | 0.83 |
| Callitrisin analog I | 19.21 | 2569.9 | 0.65 | 15.63 | 1853.5 | 0.65 |
| Unknown CAIN XXVII [m/z 159, 44 (26), 105 (22), 119 (21), 232 (20)] | 19.38 | 2590.0 | 0.15 | 16.00 | 1887.6 | 0.16 |
| Dihydrocolumellarin | 19.47 | 2601.5 | 5.61 | 16.10 | 1896.5 | 5.85 |
| Unknown CAIN XXVIII [m/z 145, 219 (49), 105 (20), 91 (18), 234 (16)... 256 (t)] | 19.67 | 2625.3 | 0.23 | 16.13 | 1899.5 | 0.24 |
| Unknown CAIN XXXI [m/z 145, 121 (34), 219 (31), 105 (27), 91 (25), 161 (20)... 256 (5)] | 20.42*† | 2716.3 | [0.72] | 16.24 | 1909.6 | 0.10 |
| Unknown CAIN XLIV [m/z 204, 119 (71), | | | | 16.27 | 1912.1 | 0.16 |

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|---|---|---|---|---|---|---|
| 91 (69), 105 (63), 131 (58), 143 (57), 93 (53)... 234? (6)] | | | | | | |
| Unknown CAIN XLV [m/z 145, 219 (70), 105 (45), 107 (29)... 234 (25)] | | | | 16.30 | 1915.5 | 0.01 |
| Unknown CAIN XLVI [m/z 93, 79 (76), 68 (68), 234 (67)] | | | | 16.38 | 1923.0 | 0.17 |
| Callitrisin | 21.03 | 2792.3 | 0.23 | 16.46* | 1930.2 | [0.82] |
| Unknown CACO I [m/z 159, 91 (82), 69 (77), 93 (76), 79 (63), 81 (62)...] | 20.42*† | 2716.3 | [0.72] | 16.46* | 1930.2 | [0.82] |
| Callitrisin analog II | 20.79 | 2761.5 | 0.14 | 16.52 | 1936.5 | 0.11 |
| Columellarin | 20.40*† | 2713.5 | [0.11] | 16.56 | 1939.8 | 0.25 |
| Unknown CAIN XXXII [m/z 68, 107 (49), 67 (46), 122 (42)... 234 (18)] | | | | 16.61 | 1944.6 | 0.08 |
| Dihydrocallitrisin | 20.93 | 2779.1 | 0.08 | 16.70 | 1953.5 | 0.08 |
| Unknown CAIN XXXIII [m/z 121, 145 (65), 161 (60), 105 (41), 160 (36)... 234 (23)] | 20.85 | 2769.1 | 0.08 | 16.73 | 1956.6 | 0.06 |
| Sandaracopimarinal? | 20.24 | 2693.3 | 0.03 | 18.81 | 2163.0 | 0.03 |
| 6,7-Dehydroferruginol? | | | | 20.13 | 2303.4 | 0.03 |
| Total reported | | 89.81% | | | 94.97% | |

*: 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