

Date : 2024-02-22

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 24B08-PTH02

Customer Identification : Blue Cypress - Australia - BG0110R

Type : Essential Oil

Source : *Callitris intratropica*

Customer : Plant Therapy

Checked and approved by:

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

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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 : 2024-02-19

PHYSICOCHEMICAL DATA

Refractive index : 1.5076 ± 0.0003 (20 °C)

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

Analyst : Cindy Caron B. Sc.

Date : 2024-02-08

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
Ethanol	0.18	Aliphatic alcohol
Toluene	0.01	Simple phenolic
Furfural	0.02	Furan
Tricyclene	0.04	Monoterpene
α -Thujene	tr	Monoterpene
α -Pinene	0.50	Monoterpene
Camphene	0.04	Monoterpene
α -Fenchene	0.02	Monoterpene
Thuja-2,4(10)-diene	0.02	Monoterpene
3,7,7-Trimethylcyclohepta-1,3,5-triene	0.01	Monoterpene
β -Pinene	0.02	Monoterpene
Sabinene	tr	Monoterpene
Unknown	0.01	Monoterpene
Myrcene	0.01	Monoterpene
α -Phellandrene	0.02	Monoterpene
Δ^3 -Carene	0.30	Monoterpene
α -Terpinene	0.01	Monoterpene
<i>para</i> -Cymene	0.04	Monoterpene
β -Phellandrene	0.02	Monoterpene
Limonene	0.09	Monoterpene
1,8-Cineole	0.02	Monoterpenic ether
γ -Terpinene	tr	Monoterpene
Unknown	0.02	Oxygenated monoterpene
<i>meta</i> -Cymenene	0.05	Monoterpene
Isoterpinolene	0.01	Monoterpene
<i>para</i> -Cymenene	0.07	Monoterpene
Terpinolene	0.03	Monoterpene
Linalool	0.01	Monoterpenic alcohol
endo-Fenchol	0.03	Monoterpenic alcohol
α -Campholenal	0.02	Monoterpenic aldehyde
<i>trans</i> -Pinocarveol	0.09	Monoterpenic alcohol
Camphor	0.03	Monoterpenic ketone
Pinocamphone	0.04	Monoterpenic ketone
Isoborneol	0.01	Monoterpenic alcohol
Pinocarvone	0.02	Monoterpenic ketone
Borneol	0.09	Monoterpenic alcohol
Isopinocamphone	0.03	Monoterpenic ketone
α -Phellandren-8-ol	0.02	Monoterpenic alcohol
Terpinen-4-ol	0.02	Monoterpenic alcohol
<i>meta</i> -Cymen-8-ol	0.02	Monoterpenic alcohol

<i>para</i> -Cymen-8-ol	0.04	Monoterpenic alcohol
Myrtenal	0.11	Monoterpenic aldehyde
α -Terpineol	0.10	Monoterpenic alcohol
Myrtenol	0.08	Monoterpenic alcohol
Verbenone	0.22	Monoterpenic ketone
<i>trans</i> -Carveol	0.01	Monoterpenic alcohol
<i>cis</i> -Carveol	0.02	Monoterpenic alcohol
Unknown	0.05	Unknown
Unknown	0.25	Oxygenated monoterpene
Unknown	0.17	Unknown
Car-3-en-2-one	0.07	Monoterpenic ketone
Geraniol	0.04	Monoterpenic alcohol
Phellandral	0.03	Monoterpenic aldehyde
(<i>E</i>)-Anethole	0.01	Phenylpropanoid
Methyl myrtenate	0.03	Monoterpenic ester
Unknown	0.05	Unknown
Myrtenoic acid	2.47	Monoterpenic acid
<i>cis</i> - β -Elemene	0.03	Sesquiterpene
β -Elemene	0.89	Sesquiterpene
β -Caryophyllene	0.36	Sesquiterpene
C. intratropica acid I	0.05	Monoterpenic acid
<i>cis</i> -Thujopsene	0.05	Sesquiterpene
C. intratropica acid II	0.29	Monoterpenic acid
Unknown	0.02	Unknown
α -Guaiene	0.05	Sesquiterpene
C. intratropica acid III	0.31	Monoterpenic acid
β -Barbatene	0.02	Sesquiterpene
α -Humulene	0.17	Sesquiterpene
Unknown	0.14	Oxygenated sesquiterpene
4,5-diepi-Aristolochene	0.07	Sesquiterpene
Eudesma-1,4(15),11-triene	1.53	Sesquiterpene
Selina-4,11-diene	0.90	Sesquiterpene
Liguloxide analog II	0.92	Sesquiterpenic ether
β -Selinene	2.14	Sesquiterpene
δ -Selinene	0.28	Sesquiterpene
α -Selinene	1.89	Sesquiterpene
4-epi- <i>cis</i> -Dihydroagarofuran	0.06	Sesquiterpenic ether
δ -Guaiene	0.53	Sesquiterpene
10,11-Epoxyguai-4-ene	[0.09]	Sesquiterpenic ether
7-epi- α -Selinene	0.03	Sesquiterpene
10,11-Epoxyguai-1-ene	[0.09]	Sesquiterpenic ether
Selina-4(15),7(11)-diene	0.15	Sesquiterpene
Selina-4,7(11)-diene?	0.11	Sesquiterpene
Selina-3,7(11)-diene	0.15	Sesquiterpene
α -Elemol	1.48	Sesquiterpenic alcohol

Unknown	0.21	Oxygenated sesquiterpene
<i>trans</i> -5,11-Epoxycalamenene?	0.02	Sesquiterpenic ether
Unknown	0.07	Oxygenated sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Guaiol	12.50	Sesquiterpenic alcohol
Eudesm-5-en-11-ol	0.22	Sesquiterpenic alcohol
5,7-diepi- α -Eudesmol	0.02	Sesquiterpenic alcohol
4,10-diepi-Guaiol	0.25	Sesquiterpenic alcohol
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.18	Oxygenated sesquiterpene
Unknown	0.24	Oxygenated sesquiterpene
Eremoligenol?	0.56	Sesquiterpenic alcohol
Eremoligenol	0.18	Sesquiterpenic alcohol
γ -Eudesmol	6.35	Sesquiterpenic alcohol
Unknown	0.30	Oxygenated sesquiterpene
Hinesol	0.31	Sesquiterpenic alcohol
Unknown	0.34	Oxygenated sesquiterpene
β -Eudesmol	6.19	Sesquiterpenic alcohol
Unknown	1.13	Oxygenated sesquiterpene
Unknown	0.26	Unknown
α -Eudesmol	4.40	Sesquiterpenic alcohol
Selin-11-en-4 α -ol	0.53	Sesquiterpenic alcohol
Unknown	0.76	Oxygenated sesquiterpene
Hanamyol	0.19	Sesquiterpenic alcohol
Bulnesol	10.05	Sesquiterpenic alcohol
Unknown	0.63	Oxygenated sesquiterpene
Unknown	0.29	Oxygenated sesquiterpene
Unknown	0.12	Oxygenated sesquiterpene
Unknown	0.30	Oxygenated sesquiterpene
Unknown	0.03	Oxygenated sesquiterpene
Unknown	0.31	Oxygenated sesquiterpene
Unknown	0.15	Lignan
Unknown	0.11	Oxygenated sesquiterpene
Chamazulene	0.14	Azulene
Unknown	0.14	Oxygenated sesquiterpene
γ -Costol	2.64	Sesquiterpenic alcohol
Unknown	[0.84]	Oxygenated sesquiterpene
Unknown	[0.84]	Oxygenated sesquiterpene
β -Costol	2.19	Sesquiterpenic alcohol
α -Costol	2.01	Sesquiterpenic alcohol
Guaiazulene	0.05	Azulene
Methyl γ -costate	0.34	Sesquiterpenic ester
Methyl β -costate	0.06	Sesquiterpenic ester
Methyl α -costate?	0.14	Sesquiterpenic ester
Callitrin isomer	0.58	Sesquiterpenic lactone

Callitrin	1.70	Sesquiterpenic lactone
Callitrisin analog I	1.46	Sesquiterpenic lactone
Unknown	0.42	Unknown
Dihydrocolumellarin	11.73	Sesquiterpenic lactone
Unknown	0.38	Unknown
Unknown	0.18	Unknown
Unknown	0.20	Oxygenated sesquiterpene
Unknown	0.03	Sesquiterpenic lactone
Unknown	0.36	Sesquiterpenic lactone
Unknown	1.35	Unknown
Callitrisin analog II	0.41	Sesquiterpenic lactone
Callitrisin	0.78	Sesquiterpenic lactone
Columellarin	0.68	Sesquiterpenic lactone
Unknown	0.24	Sesquiterpenic lactone
Dihydrocallitrisin	0.20	Sesquiterpenic lactone
Unknown	0.15	Sesquiterpenic lactone
Unknown	0.01	Unknown
Sandaracopimarinal?	0.06	Diterpenic aldehyde
Consolidated total	95.12	

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

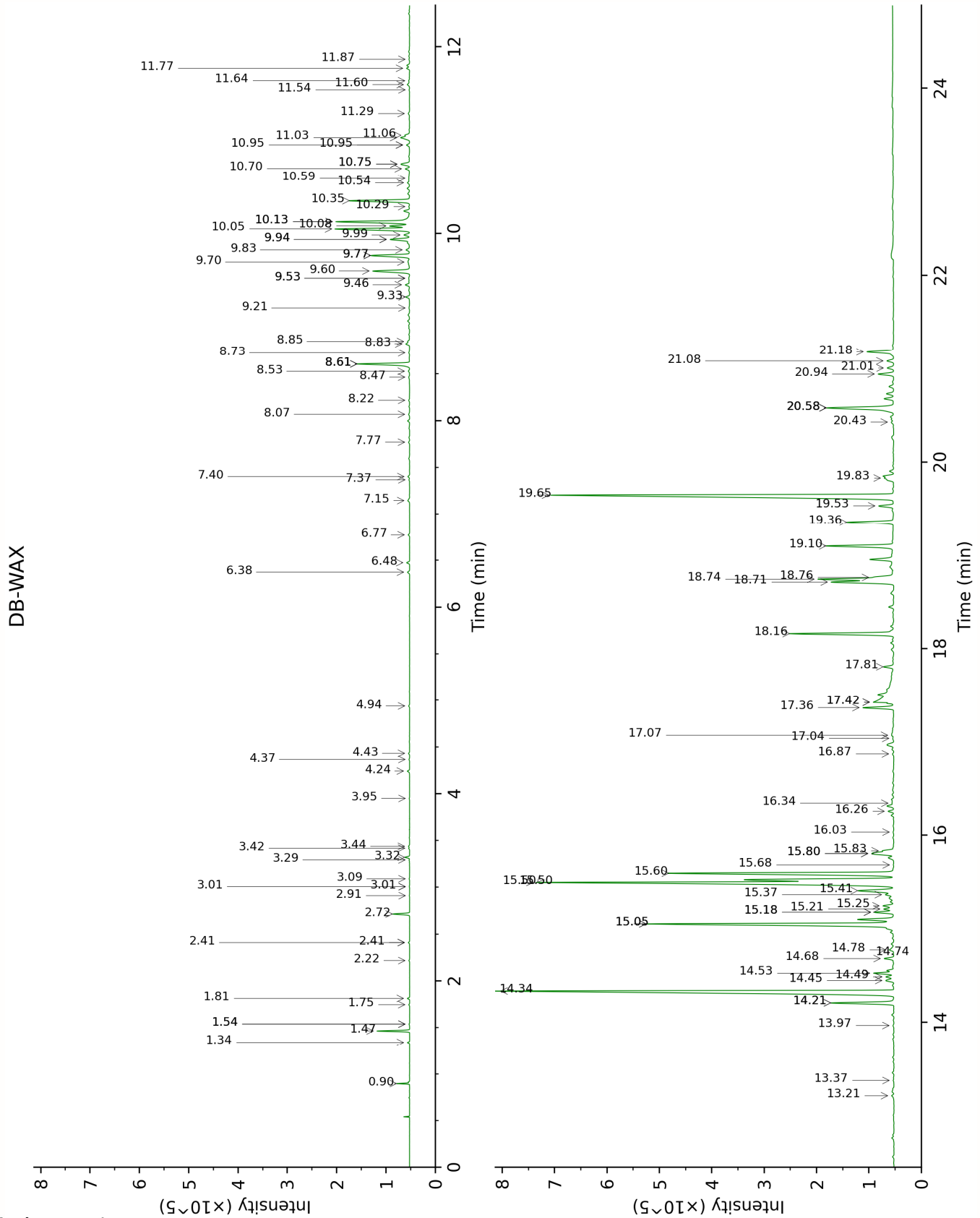
Note: no correction factor was applied

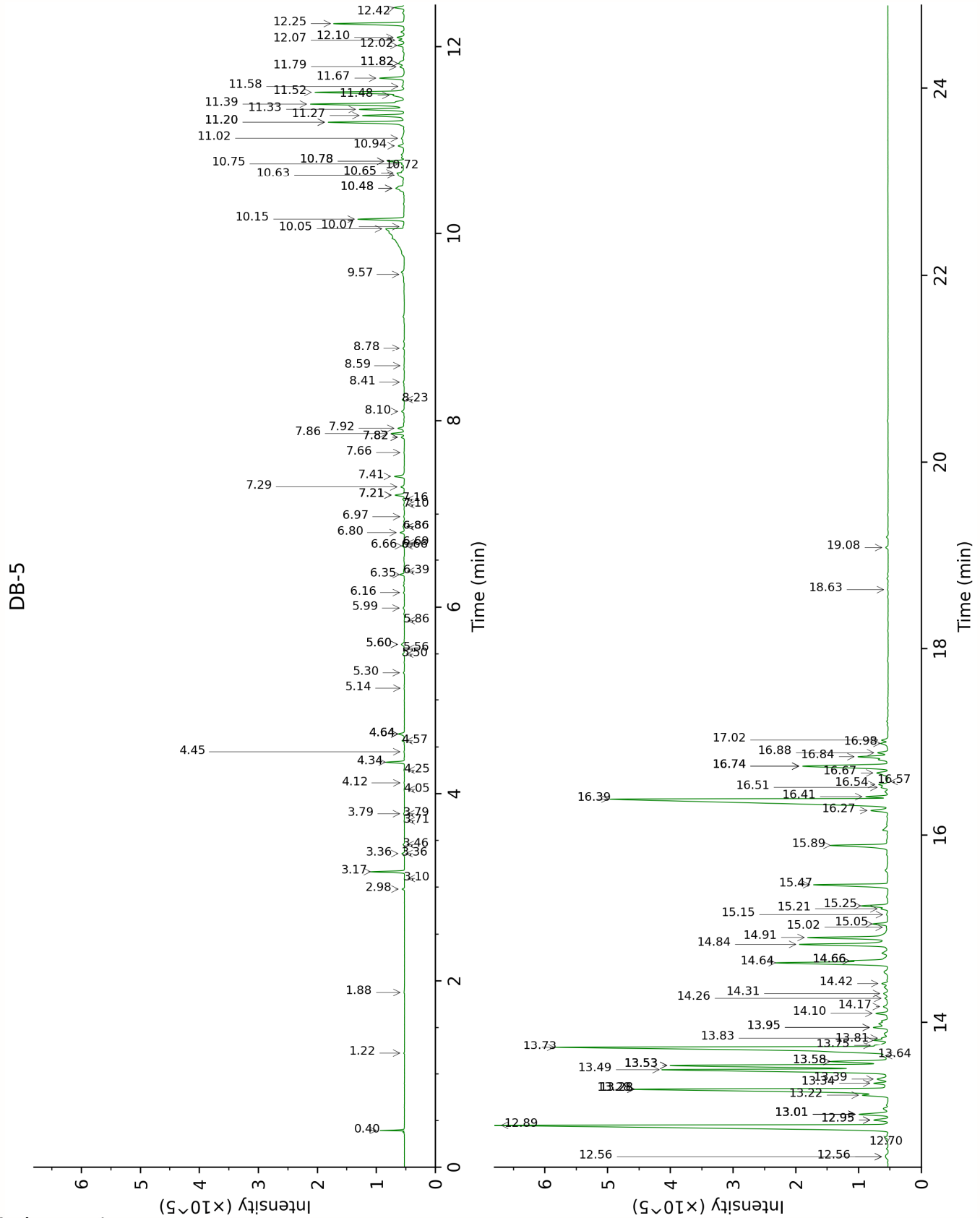
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm 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.

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





FULL ANALYSIS DATA

Ethanol	Column DB-WAX			Column DB-5		
	0.90	907.5	0.14	0.40	500.9	0.18
Toluene	1.54*	1003.6	[0.01]	1.22	759.3	0.01
Furfural	6.77	1408.1	0.03	1.88	831.7	0.02
Tricyclene	1.34	974.1	0.04	2.98	919.0	0.04
α -Thujene	1.54*	1003.6	[0.01]	3.10	926.5	tr
α -Pinene	1.47	992.8	0.50	3.17	931.2	0.50
Camphene	1.82	1029.5	0.04	3.36*	943.9	[0.06]
α -Fenchene	1.75	1023.2	0.02	3.36*	943.9	[0.06]
Thuja-2,4(10)-diene	2.41*	1085.8	[0.03]	3.46	950.3	0.02
3,7,7-Trimethylcyclohepta-1,3,5-triene	3.01*	1134.5	[0.01]	3.71	966.9	0.01
β -Pinene	2.22	1067.6	0.02	3.79*	971.9	[0.02]
Sabinene	2.41*	1085.8	[0.03]	3.79*	971.9	[0.02]
Unknown ABBA II [m/z 91, 119 (65), 109 (51), 134 (47)]	3.29	1156.3	0.01	4.05	989.0	0.01
Myrcene	3.01*	1134.5	[0.01]	4.12	993.6	0.01
α -Phellandrene	2.91	1127.2	0.01	4.25	1002.6	0.02
Δ 3-Carene	2.72	1112.3	0.31	4.34	1008.1	0.30
α -Terpinene	3.09	1140.9	0.02	4.45	1015.0	0.01
<i>para</i> -Cymene	4.24	1227.2	0.06	4.57	1022.4	0.04
β -Phellandrene	3.42	1165.8	0.02	4.64*	1026.9	[0.13]
Limonene	3.32	1158.4	0.09	4.64*	1026.9	[0.13]
1,8-Cineole	3.44	1167.3	0.02	4.64*	1026.9	[0.13]
γ -Terpinene	3.95	1206.2	0.01	5.14	1057.9	tr
Unknown PIMA I [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	4.94	1277.2	0.02	5.30	1068.2	0.02
<i>meta</i> -Cymenene	6.38	1379.1	0.05	5.50	1080.7	0.05
Isoterpinolene	4.37	1236.1	0.02	5.56	1084.5	0.01
<i>para</i> -Cymenene	6.48	1386.5	0.07	5.60*	1087.1	[0.09]
Terpinolene	4.43	1240.8	0.03	5.60*	1087.1	[0.09]
Linalool	8.22	1516.4	0.02	5.86	1103.0	0.01
endo-Fenchol	8.53	1540.6	0.03	5.99	1111.5	0.03
α -Campholenal	7.15	1435.9	0.05	6.16	1122.1	0.02
<i>trans</i> -Pinocarveol	9.33	1602.7	0.10	6.35	1134.3	0.09
Camphor	7.37	1452.5	0.02	6.39	1136.7	0.03
Pinocamphone	7.40	1455.1	0.04	6.66*	1153.9	[0.05]
Isoborneol	9.53*	1618.8	[0.03]	6.66*	1153.9	[0.05]
Pinocarvone	8.07	1504.8	0.03	6.69	1156.0	0.02

Borneol	9.94*	1652.4	[0.53]	6.80	1162.9	0.09
Isopinocampnone	7.77	1482.5	0.03	6.86*	1167.1	[0.04]
α -Phellandren-8-ol	10.29	1680.8	0.02	6.86*	1167.1	[0.04]
Terpinen-4-ol	8.73	1556.0	0.03	6.98	1174.3	0.02
<i>meta</i> -Cymen-8-ol	11.60	1791.1	0.08	7.10	1182.4	0.02
<i>para</i> -Cymen-8-ol	11.64	1794.5	0.03	7.16	1186.2	0.04
Myrtenal	8.83	1563.7	0.11	7.21*	1189.0	[0.20]
α -Terpineol	9.94*	1652.4	[0.53]	7.21*	1189.0	[0.20]
Myrtenol	11.03*†	1743.0	[0.31]	7.29	1194.6	0.08
Verbenone	9.77*	1638.5	[1.08]	7.41	1201.7	0.22
<i>trans</i> -Carveol	11.54	1786.3	0.01	7.66	1218.6	0.01
<i>cis</i> -Carveol	11.87	1814.5	0.02	7.82*	1229.5	[0.06]
Unknown CAIN XLVIII [m/z 67, 81 (74), 121 (68), 41 (64), 123 (58), 69 (58)...]				7.82*	1229.5	[0.06]
Unknown CAIN XXXVIII [m/z 79, 107 (80), 121 (74), 91 (71), 150 (63)]	11.06*†	1745.1	[0.12]	7.86	1232.2	0.25
Unknown CAIN XLVII [m/z 107, 79 (75), 91 (59), 150 (51), 77 (48), 93 (37)...]				7.92	1235.9	0.17
Car-3-en-2-one	10.54	1701.6	0.06	8.10	1247.9	0.07
Geraniol	11.77	1806.0	0.07	8.23	1256.4	0.04
Phellandral	10.13*	1667.8	[2.06]	8.41	1268.8	0.03
(<i>E</i>)-Anethole	11.29	1764.8	0.04	8.59	1280.5	0.01
Methyl myrtenate	9.70	1632.8	0.07	8.78	1293.5	0.03
Unknown EUMA VI [m/z 68, 67 (50), 110 (16), 41 (15), 82 (15), 69 (14)...]				9.57	1348.2	0.05
Myrtenoic acid	17.42*	2355.0	[2.83]	10.05	1382.4	2.47
<i>cis</i> - β -Elemene	8.47	1535.7	0.03	10.08	1384.0	0.03
β -Elemene	8.61*	1546.7	[1.30]	10.16	1389.7	0.89
β -Caryophyllene	8.61*	1546.7	[1.30]	10.48*	1413.2	[0.41]
C. intratropica acid I				10.48*	1413.2	[0.41]
<i>cis</i> -Thujopsene	8.85	1565.7	0.05	10.63*†	1424.0	[0.17]
C. intratropica acid II				10.65*†	1425.9	[0.17]
Unknown HULU XIII [m/z 147, 41 (66), 105 (53), 91 (48), 69 (41), 119 (34)...]				10.72	1430.8	0.02
α -Guaiene	8.61*	1546.7	[1.30]	10.75	1433.1	0.05

C. intratropica acid III				10.78*	1435.2	[0.34]
β-Barbatene	9.21	1593.5	0.02	10.78*	1435.2	[0.34]
α-Humulene	9.46	1613.2	0.11	10.94	1447.4	0.17
Unknown CAIN XLIX [m/z 107, 150 (72), 123 (64), 79 (61), 121 (54), 93 (54), 91 (53), 135 (45)... 220? (1)]				11.02	1453.5	0.14
4,5-diepi- Aristolochene	9.53*	1618.8	[0.03]	11.20*	1466.2	[1.60]
Eudesma-1,4(15),11- triene	10.35	1686.0	1.53	11.20*	1466.2	[1.60]
Selina-4,11-diene	9.60	1625.1	1.06	11.27	1471.6	0.90
Liguloxide analog II	9.77*	1638.5	[1.08]	11.33	1476.5	0.92
β-Selinene	10.05	1661.5	1.93	11.39	1480.6	2.14
δ-Selinene	9.83	1643.4	0.10	11.48	1487.6	0.28
α-Selinene	10.13*	1667.8	[2.06]	11.52	1490.0	1.89
4-epi-cis- Dihydroagarofuran	9.99	1656.3	0.15	11.58	1494.6	0.06
δ-Guaiene	10.08	1664.1	0.48	11.67	1501.2	0.53
10,11-Epoxyguai-4- ene	10.95*	1736.3	[0.09]	11.79*†	1510.5	[0.11]
7-epi-α-Selinene	10.59	1705.6	0.03	11.82*†	1513.2	[0.14]
10,11-Epoxyguai-1- ene	10.95*	1736.3	[0.09]	11.82*†	1513.2	[0.14]
Selina-4(15),7(11)- diene	10.75*	1718.9	[0.28]	12.02	1528.4	0.15
Selina-4,7(11)-diene?	10.70	1714.6	0.11	12.07	1532.8	0.11
Selina-3,7(11)-diene	10.75*	1718.9	[0.28]	12.10	1535.1	0.15
α-Elemol	14.21*	2028.5	[1.52]	12.25	1546.7	1.48
Unknown CAIN VIII [m/z 145, 105 (99), 107 (67), 91 (63), 121 (63), 147 (56), 119 (53)... 218 (37)]				12.42	1560.2	0.21
trans-5,11- Epoxycalamenene?	13.37	1950.1	0.02	12.56*	1570.9	[0.13]
Unknown CAIN IX [m/z 173, 216 (68), 159 (52), 43 (33)]	13.21	1935.0	0.07	12.56*	1570.9	[0.13]
Unknown CAIN XI [m/z 43, 91 (87), 121 (69), 191 (66), 206 (64)... 218 (5)]	13.97	2005.2	0.03	12.70	1582.2	0.02
Guaiol	14.34	2040.7	12.41	12.89	1597.2	12.50

Eudesm-5-en-11-ol	14.49	2055.3	0.22	12.95*	1601.6	[0.32]
5,7-diepi- α -Eudesmol	14.74	2079.4	0.02	12.95*	1601.6	[0.32]
4,10-diepi-Guaiol	14.45	2051.5	0.25	13.01*	1606.5	[0.69]
Unknown CAIN XII [m/z 149, 59 (90), 161 (60), 81 (46), 93 (44), 105 (37), 108 (35)... 222? (2)]				13.01*	1606.5	[0.69]
Unknown CAIN XIV [m/z 43, 91 (90), 107 (84), 191 (68), 206 (63), 161 (61)... 222 (5)]	14.78	2083.0	0.18	13.01*	1606.5	[0.69]
Unknown MIAL II [m/z 43, 81 (97), 135 (71), 95 (62), 204 (61), 71 (59), 207 (56)... 222 (3)]	14.68	2074.1	0.24	13.01*	1606.5	[0.69]
Eremoligenol?	15.05*	2110.1	[6.91]	13.22	1623.4	0.56
Eremoligenol	15.18*	2122.5	[0.48]	13.28*	1628.7	[7.27]
γ -Eudesmol	15.05*	2110.1	[6.91]	13.28*	1628.7	[7.27]
Unknown MYGA VIII [m/z 105, 161 (51), 91 (36), 59 (30), 147 (29), 189 (24), 204 (23)... 218 (t)]	15.25	2129.4	0.30	13.28*	1628.7	[7.27]
Hinesol	15.18*	2122.5	[0.48]	13.34	1633.9	0.31
Unknown CAIN XV [m/z 59, 161 (53), 81 (47), 204 (40), 107 (36), 95 (33), 93 (33)... 222 (1)]	14.53	2059.1	0.48	13.39	1637.6	0.34
β -Eudesmol	15.60	2164.3	6.13	13.49	1645.9	6.19
Unknown CAIN XXXVII [m/z 204, 161 (97), 59 (87), 189 (78), 105 (45)...]	15.41	2145.6	1.13	13.53*†	1649.7	[5.76]
Unknown CAIN XXXVI [m/z 214, 161 (86), 173 (82), 172 (79), 199 (75), 189 (75), 204 (70)...]	15.21	2126.0	0.26	13.53*†	1649.7	[5.76]
α -Eudesmol	15.50*†	2154.5	[10.29]	13.53*†	1649.7	[5.76]
Selin-11-en-4 α -ol	15.80*	2185.4	[0.86]	13.58*†	1653.2	[1.31]

Unknown CAIN XLI [m/z 81, 79 (81), 93 (79), 91 (72), 105 (67), 67 (55), 119 (52)...]	17.36	2348.7	0.76	13.58*†	1653.2	[1.31]
Hanamyol	15.68	2173.2	0.01	13.64	1658.3	0.19
Bulnesol	15.50*†	2154.5	[10.29]	13.73*†	1665.7	[10.35]
Unknown CAIN XLII [m/z 162, 147 (84), 91 (36), 105 (21), 107 (17)... 220 (t)]				13.75*†	1667.3	[0.32]
Unknown CAIN XVI [m/z 135, 107 (99), 59 (90), 93 (81), 161 (68), 105 (65)...]	15.83	2188.3	0.23	13.81	1672.6	0.29
Unknown CAIN XVIII [m/z 91, 121 (98), 79 (94), 93 (90), 105 (81), 81 (74)... 218 (24)]	15.37	2141.3	0.23	13.83	1674.3	0.12
Unknown CAIN XIX [m/z 43, 55 (75), 41 (66), 95 (65), 109 (64), 81 (57), 69 (56), 162 (52), 85 (46)... 238 (12)]	14.21*	2028.5	[1.52]	13.95*	1683.8	[0.33]
Unknown CAIN XXXV [m/z 95, 107 (98), 93 (97), 69 (93), 67 (91), 79 (91)... 218 (49)...]	16.03	2208.6	0.03	13.95*	1683.8	[0.33]
Unknown CAIN XX [m/z 91, 175 (90), 105 (85), 81 (82), 119 (80), 93 (76)... 218 (18)]	17.81	2396.4	0.29	14.10	1696.2	0.31
Unknown OCSA IV [m/z 133, 93 (97), 131 (85), 145 (83), 107 (69)...220]	17.07	2316.7	0.14	14.17	1702.2	0.15
Unknown AGAR XXIV [m/z 93, 81 (90), 95 (86), 91 (83), 41 (83), 107 (81)... 220 (29), 238? (4)]	17.42*	2355.0	[2.83]	14.26	1709.7	0.11
Chamazulene	16.87	2295.4	0.04	14.31	1714.1	0.14
Unknown CAIN XXI [m/z 137, 91 (76), 41 (69), 159 (65), 105				14.42	1723.3	0.14

(62), 173 (57), 79 (54)... 236 (20)]						
γ-Costol	18.16	2436.0	2.64	14.64*†	1742.6	[2.80]
Unknown CAIN XLIII [m/z 91, 105 (89), 79 (84), 93 (77), 107 (67), 189 (64), 145 (62), 119 (61)... 220 (16)...]				14.66*†	1744.4	[0.68]
Unknown CAIN XXII [m/z 91, 105 (86), 93 (67), 79 (63), 119 (60), 159 (63), 77 (52)... 218 (24)]				14.66*†	1744.4	[0.68]
β-Costol	18.74*†	2501.1	[1.95]	14.84	1759.6	2.19
α-Costol	18.71*†	2497.6	[1.71]	14.91	1766.0	2.01
Guaiazulene	17.04	2313.1	0.04	15.02	1775.4	0.05
Methyl γ-costate	15.80*	2185.4	[0.86]	15.05	1778.5	0.34
Methyl β-costate	16.34	2240.7	0.04	15.15	1787.1	0.06
Methyl α-costate?	16.26	2231.7	0.14	15.22	1792.5	0.14
Callitrin isomer	18.76	2503.2	0.41	15.25	1795.3	0.58
Callitrin	19.10	2542.2	1.84	15.47	1815.2	1.70
Callitrisin analog I	19.36	2572.1	1.25	15.89	1853.5	1.46
Unknown CAIN XXVII [m/z 159, 44 (26), 105 (22), 119 (21), 232 (20)]	19.53	2592.5	0.42	16.26	1887.4	0.42
Dihydrocolumellarin	19.65	2606.0	11.47	16.39	1898.4	11.73
Unknown CAIN XXVIII [m/z 145, 219 (49), 105 (20), 91 (18), 234 (16)... 256 (t)]	19.83	2627.8	0.23	16.41	1900.8	0.38
Unknown CAIN XXXI [m/z 145, 121 (34), 219 (31), 105 (27), 91 (25), 161 (20)... 256 (5)]	20.58*	2718.0	[2.31]	16.51	1910.0	0.18
Unknown CAIN XLIV [m/z 204, 119 (71), 91 (69), 105 (63), 131 (58), 143 (57), 93 (53)... 234? (6)]				16.54	1913.0	0.20
Unknown CAIN XLV [m/z 145, 219 (70), 105 (45), 107 (29)... 234 (25)]				16.58	1916.0	0.03

Unknown CAIN XLVI [m/z 93, 79 (76), 68 (68), 234 (67)]				16.67	1924.6	0.36
Unknown CACO I [m/z 159, 91 (82), 69 (77), 93 (76), 79 (63), 81 (62)...]	20.58*	2718.0	[2.31]	16.74*	1931.5	[2.54]
Callitrisin analog II	20.94	2762.7	0.41	16.74*	1931.5	[2.54]
Callitrisin	21.18	2792.2	0.78	16.74*	1931.5	[2.54]
Cumellarin	20.58*	2718.0	[2.31]	16.84	1941.1	0.68
Unknown CAIN XXXII [m/z 68, 107 (49), 67 (46), 122 (42)... 234 (18)]				16.88	1945.2	0.24
Dihydrocallitrisin	21.08	2780.1	0.18	16.98	1954.7	0.20
Unknown CAIN XXXIII [m/z 121, 145 (65), 161 (60), 105 (41), 160 (36)... 234 (23)]	21.01	2770.6	0.18	17.02	1958.0	0.15
Unknown CACO II [m/z 93, 81 (88), 79 (69), 107 (65), 95 (61)...]				18.63	2116.5	0.01
Sandaracopimarinal?	20.43	2699.2	0.07	19.08	2163.1	0.06
Total reported		90.43%			95.86%	

*: 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