

**Date :** December 01, 2020

**CERTIFICATE OF ANALYSIS – GC PROFILING**

**SAMPLE IDENTIFICATION**

**Internal code :** 20K24-PTH04


**Customer identification :** Helichrysum Italicum Organic - H9010999R

**Type :** Essential oil

**Source :** *Helichrysum italicum*

**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 :** Fanny Charlier, B. Sc., chimiste à l'entraînement

**Analysis date :** November 26, 2020

Checked and approved by :



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

*Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia.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

**Refractive index:**  $1.4766 \pm 0.0003$  (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
2-Methyl-3-pentanone	tr	Aliphatic ketone
Unknown	tr	Unknown
2-Methyl-2-heptene	0.01	Alkene
4-Methyl-3-hexanone	0.02	Aliphatic ketone
Bornylene	0.01	Monoterpene
Nonane	tr	Alkane
$\alpha$ -Thujene	tr	Monoterpene
$\alpha$ -Pinene	6.19	Monoterpene
$\alpha$ -Fenchene	0.09	Monoterpene
Camphene	0.05	Monoterpene
Thuja-2,4(10)-diene	0.01	Monoterpene
$\beta$ -Pinene	0.16	Monoterpene
Sabinene	tr	Monoterpene
6-Methyl-5-hepten-2-one	0.01	Aliphatic ketone
Myrcene	0.02	Monoterpene
2-Pentylfuran	0.01	Furan
6-Methyl-5-hepten-2-ol	tr	Aliphatic alcohol
2-Carene	0.01	Monoterpene
$\alpha$ -Phellandrene	0.01	Monoterpene
Unknown	0.01	Monoterpene
Isobutyl 2-methylbutyrate	0.02	Aliphatic ester
(3Z)-Hexenyl acetate	tr	Aliphatic ester
$\alpha$ -Terpinene	0.08	Monoterpene
para-Methylanisole	0.01	Simple phenolic
ortho-Cymene	tr	Monoterpene
para-Cymene	0.11	Monoterpene
Limonene	1.28	Monoterpene
1,8-Cineole	0.21	Monoterpenic ether
(Z)- $\beta$ -Ocimene	0.01	Monoterpene
(E)- $\beta$ -Ocimene	0.02	Monoterpene
Isobutyl angelate	0.16	Aliphatic ester
$\gamma$ -Terpinene	0.23	Monoterpene
Terpinolene	0.10	Monoterpene
2-Nonanone	0.03	Aliphatic ketone
2,4-Dimethylheptane-3,5-dione	0.03	$\beta$ -Diketone
Linalool	0.51	Monoterpenic alcohol
Nonanal	0.04	Aliphatic aldehyde
2-Methylbutyl 2-methylbutyrate	0.08	Aliphatic ester
endo-Fenchol	0.05	Monoterpenic alcohol
trans-Pinocarveol	0.05	Monoterpenic alcohol
para-Vinylanisole	0.01	Simple phenolic
Isoamyl angelate	0.03	Aliphatic ester
Nerol oxide	0.02	Aliphatic ether
2-Methylbutyl angelate	0.63	Aliphatic ester
Borneol	0.07	Monoterpenic alcohol

Unknown	0.02	Aliphatic ester
Terpinen-4-ol	0.20	Monoterpenic alcohol
4,6-Dimethyloctane-3,5-dione epimer I	0.12	$\beta$ -Diketone
4,6-Dimethyloctane-3,5-dione epimer II	0.13	$\beta$ -Diketone
$\alpha$ -Terpineol	0.25	Monoterpenic alcohol
Myrtenol	0.03	Monoterpenic alcohol
2-Methylbutyl tiglate	0.03	Aliphatic ester
Verbenone	0.02	Monoterpenic ketone
Unknown	0.01	Unknown
Decanal	0.05	Aliphatic aldehyde
Unknown	0.03	Unknown
Unknown	0.02	Unknown
Nerol	0.32	Monoterpenic alcohol
Unknown	0.08	$\beta$ -Diketone
Hexyl 2-methylbutyrate	0.01	Aliphatic ester
Hexyl isovalerate	0.03	Aliphatic ester
3-Methylpentyl angelate	0.03	Aliphatic ester
Unknown	0.06	Aliphatic ester
Hexyl angelate	0.31	Aliphatic ester
2-Undecanone	0.05	Aliphatic ketone
2-Acetyl-para-cresol?	0.01	Simple phenolic
Myrtenyl acetate	0.02	Monoterpenic ester
Hexyl tiglate	0.05	Aliphatic ester
Bicycloelemene	0.01	Sesquiterpene
$\alpha$ -Terpinyl acetate	0.24	Monoterpenic ester
Cyclosativene I	0.13	Sesquiterpene
Cyclosativene II	0.27	Sesquiterpene
$\alpha$ -Ylangene	0.01	Sesquiterpene
Italicene isomer	0.80	Sesquiterpene
$\alpha$ -Copaene	1.46	Sesquiterpene
Neryl acetate	30.60	Monoterpenic ester
7-Cubebene	0.02	Sesquiterpene
Geranyl acetate	0.40	Monoterpenic ester
Hexyl hexanoate	0.03	Aliphatic ester
$\alpha$ -Funebrene	0.12	Sesquiterpene
Isoitalicene	0.16	Sesquiterpene
Italicene	3.06	Sesquiterpene
$\alpha$ -Gurjunene	0.07	Sesquiterpene
Isocaryophyllene	0.10	Sesquiterpene
$\beta$ -Caryophyllene	4.21	Sesquiterpene
<i>cis</i> - $\alpha$ -Bergamotene	0.93	Sesquiterpene
$\beta$ -Ylangene	0.02	Sesquiterpene
$\beta$ -Copaene	0.02	Sesquiterpene
<i>trans</i> - $\alpha$ -Bergamotene	0.93	Sesquiterpene
Italidione I (4,6,9-Trimethyldec-8-ene-3,5-dione)	1.67	$\beta$ -Diketone
$\alpha$ -Humulene	0.36	Sesquiterpene
Cadina-4,11-diene	0.07	Sesquiterpene
Neryl propionate	0.63	Monoterpenic ester
allo-Aromadendrene	0.32	Sesquiterpene
( <i>E</i> )- $\beta$ -Farnesene	0.89	Sesquiterpene
$\alpha$ -Acoradiene	0.47	Sesquiterpene
$\beta$ -Acoradiene	0.44	Sesquiterpene

4,5-diepi-Aristolochene	0.19	Sesquiterpene
Selina-4,11-diene	1.68	Sesquiterpene
$\gamma$ -Curcumene	10.57	Sesquiterpene
$\alpha$ -Curcumene	2.51	Sesquiterpene
$\beta$ -Selinene	5.21	Sesquiterpene
Valencene	0.14	Sesquiterpene
Italidione II isomer I (2,4,6,9-Tetramethyldec-8-ene-3,5-dione)	1.63	$\beta$ -Diketone
Italidione II isomer II (5,7,10-Trimethylundec-9-ene-4,6-dione)	2.03	$\beta$ -Diketone
$\alpha$ -Selinene	3.78	Sesquiterpene
Eudesma-2,4(15),11-triene	0.39	Sesquiterpene
Italidione II analog	0.59	$\beta$ -Diketone
$\delta$ -Amorphene	0.50	Sesquiterpene
$\beta$ -Bisabolene	0.10	Sesquiterpene
10-epi-Italicene ether	0.08	Sesquiterpenic ether
$\gamma$ -Cadinene	0.34	Sesquiterpene
$\beta$ -Curcumene	0.35	Sesquiterpene
7-epi- $\alpha$ -Selinene	0.11	Sesquiterpene
Sesquicineole	0.05	Sesquiterpenic ether
$\delta$ -Cadinene	0.86	Sesquiterpene
<i>trans</i> -Cadina-1,4-diene	0.03	Sesquiterpene
Italicene ether	0.22	Sesquiterpenic ether
( <i>E</i> )- $\gamma$ -Bisabolene	0.10	Sesquiterpene
$\alpha$ -Cadinene	0.08	Sesquiterpene
Selina-3,7(11)-diene	0.16	Sesquiterpene
( <i>E</i> )- $\alpha$ -Bisabolene	0.16	Sesquiterpene
Caryophyllenyl alcohol	0.02	Sesquiterpenic alcohol
( <i>E</i> )-Nerolidol	0.12	Sesquiterpenic alcohol
Italidione III isomer I	0.43	$\beta$ -Diketone
Italidione III isomer II	0.93	$\beta$ -Diketone
Italidione III isomer III	0.22	$\beta$ -Diketone
Guaiol	0.14	Sesquiterpenic alcohol
Eudesm-5-en-11-ol	0.27	Sesquiterpenic alcohol
Copaborneol	0.27	Sesquiterpenic alcohol
Unknown	0.13	Oxygenated sesquiterpene
Unknown	0.12	Oxygenated sesquiterpene
Unknown	0.17	Unknown
Neryl angelate?	0.09	Monoterpenic ester
Caryophylladienol I	0.02	Sesquiterpenic alcohol
1-epi-Cubenol	0.04	Sesquiterpenic alcohol
$\gamma$ -Eudesmol	0.10	Sesquiterpenic alcohol
Caryophylladienol II	0.04	Sesquiterpenic alcohol
$\tau$ -Muurolol	0.03	Sesquiterpenic alcohol
$\tau$ -Cadinol	0.04	Sesquiterpenic alcohol
$\beta$ -Eudesmol	0.05	Sesquiterpenic alcohol
$\alpha$ -Muurolol	0.04	Sesquiterpenic alcohol
Selin-11-en-4 $\alpha$ -ol	0.18	Sesquiterpenic alcohol
$\alpha$ -Eudesmol	0.03	Sesquiterpenic alcohol
Bulnesol	0.03	Sesquiterpenic alcohol
$\beta$ -Bisabolol	0.18	Sesquiterpenic alcohol
epi- $\alpha$ -Bisabolol	0.05	Sesquiterpenic alcohol

α-Bisabolol	0.03	Sesquiterpenic alcohol
Neryl 4-methylvalerate?	0.05	Monoterpenic ester
Unknown	0.04	Unknown
Geranyl 4-methylvalerate?	0.04	Monoterpenic ester
Unknown	0.13	Oxygenated sesquiterpene
Unknown	0.01	Oxygenated sesquiterpene
Unknown	0.03	Oxygenated sesquiterpene
Unknown	0.04	Oxygenated sesquiterpene
Unknown	0.04	Oxygenated sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.03	Oxygenated sesquiterpene
Unknown	0.07	Oxygenated sesquiterpene
Unknown	0.17	Oxygenated sesquiterpene
Unknown	0.11	Unknown
<b>Consolidated total</b>	<b>97.15%</b>	

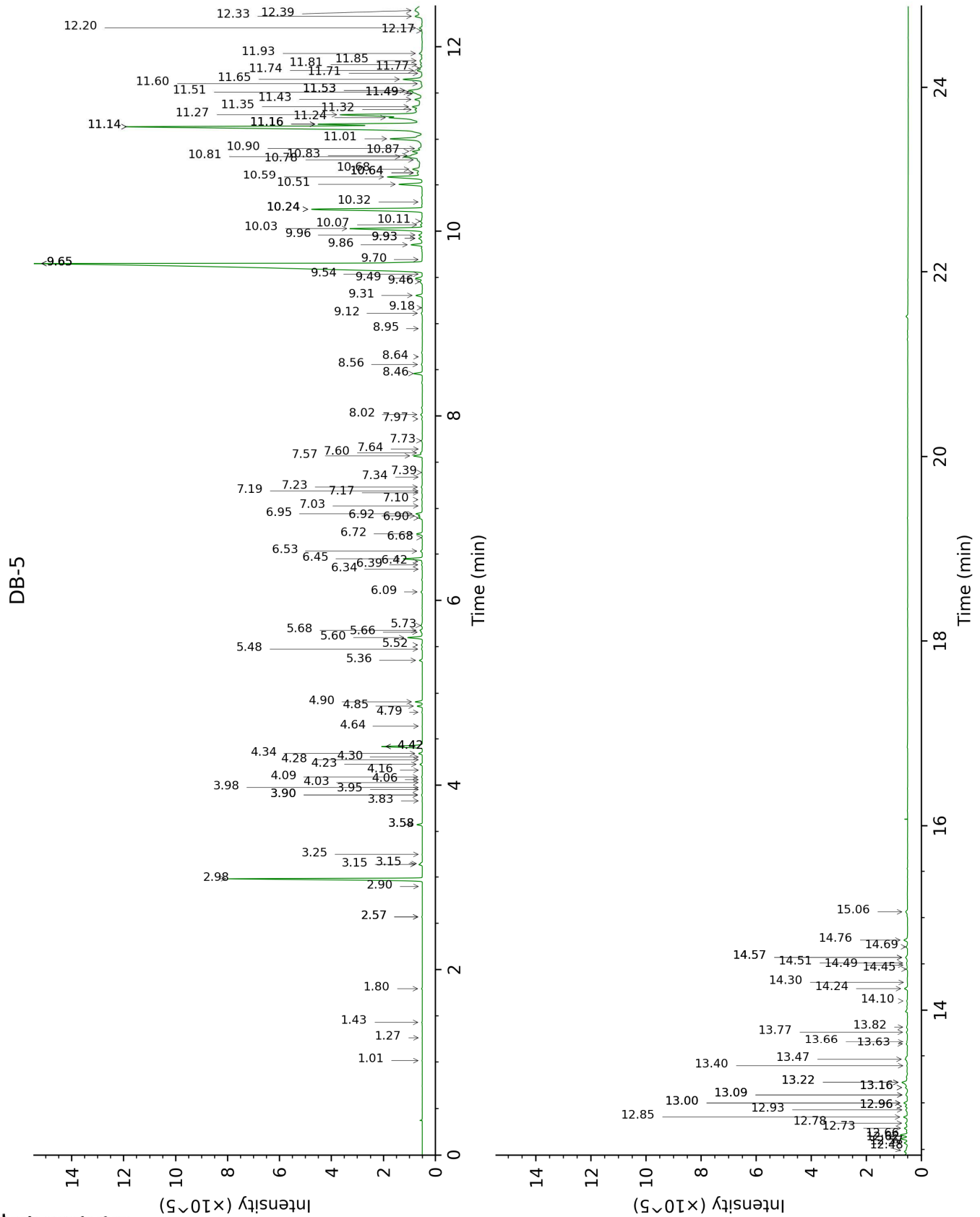
tr: The compound has been detected below 0.005% of total signal.

Note: no correction factor was applied

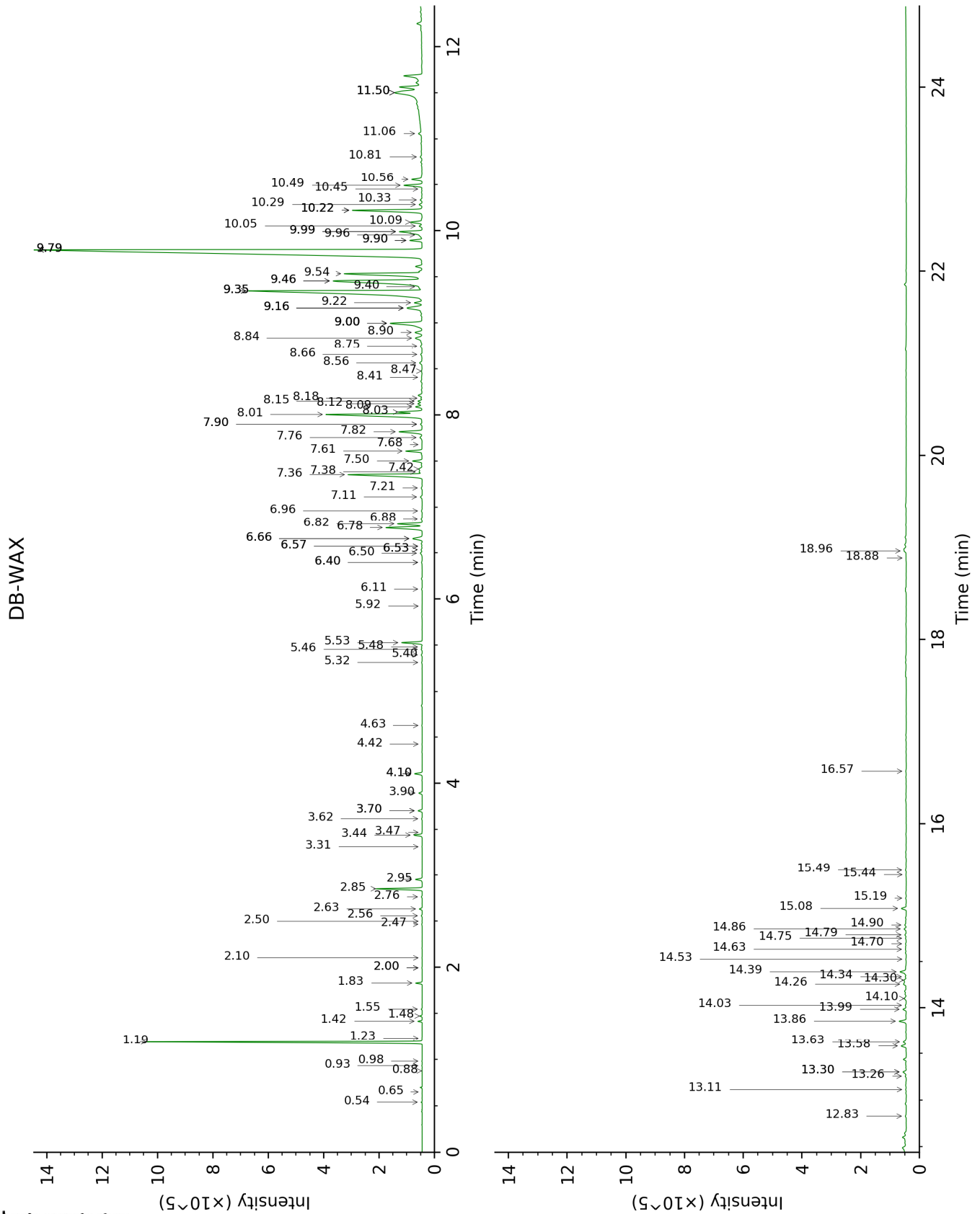
**About "consolidated" data:** The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm 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	%
2-Methyl-3-pentanone	1.01	750	tr	0.98	961	0.01
Unknown [m/z 73, 87 (52), 41 (45), 56 (42), 100 (29)...]	1.27	786	tr	0.88	943	tr
2-Methyl-2-heptene	1.43	809	0.01	0.54	843	0.01
4-Methyl-3-hexanone	1.80	839	0.02	1.55	1041	0.02
Bornylene	2.57*	904	0.01	0.93	953	0.01
Nonane	2.57*	904	[0.01]	0.65	889	tr
α-Thujene	2.90	926	tr	1.23	1006	0.01
α-Pinene	2.98	931	6.19	1.19	999	6.22
α-Fenchene	3.14†	942	0.15	1.42	1028	0.09
Camphene	3.16†	943	[0.15]	1.48	1033	0.05
Thuja-2,4(10)-diene	3.25	949	0.01	2.00*	1087	0.01
β-Pinene	3.58*	971	0.16	1.83	1070	0.16
Sabinene	3.58*	971	[0.16]	2.00*	1087	[0.01]
6-Methyl-5-hepten-2-one	3.83	988	0.01	4.63	1294	0.01
Myrcene	3.90*	992	0.03	2.56	1137	0.02
2-Pentylfuran	3.90*	992	[0.03]	3.31	1197	0.01
6-Methyl-5-hepten-2-ol	3.95	996	tr	6.53*	1434	0.04
2-Carene	3.98	997	0.01	2.10	1098	tr
α-Phellandrene	4.03	1001	0.01	2.47	1130	0.02
Unknown [m/z = 123, 43 (16), 152 (14), 124 (9), 137 (6)]	4.06	1003	0.01	2.50	1132	0.01
Isobutyl 2-methylbutyrate	4.09	1005	0.02	2.76	1153	0.02
(3Z)-Hexenyl acetate	4.16	1009	tr	4.42	1279	0.01
α-Terpinene	4.23	1013	0.08	2.63	1143	0.08
para-Methylanisole	4.28	1016	0.01	5.92	1388	0.01
ortho-Cymene	4.30	1018	tr	3.70*	1226	0.12
para-Cymene	4.34	1021	0.11	3.70*	1226	[0.12]
Limonene	4.42*	1026	1.46	2.85	1160	1.28
1,8-Cineole	4.42*	1026	[1.46]	2.95	1168	0.21
(Z)-β-Ocimene	4.64	1039	0.01	3.47	1209	0.01
(E)-β-Ocimene	4.79	1049	0.02	3.62	1220	0.02
Isobutyl angelate	4.85	1053	0.16	4.10*	1255	0.24
γ-Terpinene	4.90	1056	0.23	3.44	1207	0.25
Terpinolene	5.36	1085	0.10	3.90	1240	0.10
2-Nonanone	5.48	1092	0.03	5.40	1350	0.03

2,4-Dimethylheptane-3,5-dione	5.52	1095	0.03	7.21	1485	0.04
Linalool	5.60	1100	0.51	7.61	1515	0.51
Nonanal	5.66	1104	0.04	5.46	1354	0.03
2-Methylbutyl 2-methylbutyrate	5.68	1105	0.08	4.10*	1255	[0.24]
endo-Fenchol	5.73	1109	0.05	7.90*	1538	0.06
trans-Pinocarveol	6.09	1132	0.05	8.75	1605	0.08
para-Vinylanisole	6.34	1148	0.01	9.00*	1626	1.72
Isoamyl angelate	6.39	1151	0.03	5.48	1356	0.02
Nerol oxide	6.42	1154	0.02	6.40*	1423	0.03
2-Methylbutyl angelate	6.45	1156	0.63	5.53	1359	0.63
Borneol	6.53	1161	0.07	9.35*	1655	10.89
Unknown [m/z 83, 100 (34), 55 (33), 43 (21), 84 (21)...]	6.68	1170	0.02	5.32	1344	0.02
Terpinen-4-ol	6.72	1173	0.20	8.09	1553	0.23
4,6-Dimethyloctane-3,5-dione epimer I	6.90	1185	0.12	8.12	1555	0.15
4,6-Dimethyloctane-3,5-dione epimer II	6.92	1186	0.13	8.15	1558	0.14
α-Terpineol	6.94	1188	0.25	9.35*	1655	[10.89]
Myrtenol	7.03	1194	0.03	10.33	1737	0.06
2-Methylbutyl tiglate	7.10	1198	0.03	6.53*	1434	[0.04]
Verbenone	7.17	1203	0.02	9.16*	1639	0.85
Unknown [m/z 95, 93 (32), 121 (24), 79 (22), 91 (21), 105 (16)... 154 (2)]	7.19	1204	0.01	10.45	1748	0.01
Decanal	7.23	1207	0.05	6.88	1459	0.03
Unknown [m/z 81, 57 (91), 168 (73), 67 (52), 140 (45), 41 (36), 113 (27)...]	7.34	1214	0.03			
Unknown [m/z 81, 109 (85), 168 (72), 57 (69), 67 (58), 41 (49), 140 (45)...]	7.39	1218	0.02			
Nerol	7.57	1230	0.32	10.56	1757	0.37
Unknown [m/z 113, 57 (55), 85 (16), 170 (16)]	7.60	1232	0.08			
Hexyl 2-methylbutyrate	7.64	1235	0.01	6.11	1402	0.02
Hexyl isovalerate	7.73	1241	0.03	6.40*	1423	[0.03]

3-Methylpentyl angelate	7.97	1258	0.03	6.96	1466	0.03
Unknown [m/z 83, 55 (30), 57 (23), 100 (20), 98 (14)...]	8.02	1261	0.06	6.50	1431	0.09
Hexyl angelate	8.46	1292	0.31	7.50	1507	0.32
2-Undecanone	8.56	1298	0.05	8.18	1560	0.04
2-Acetyl-para-cresol?	8.64	1304	0.01			
Myrtenyl acetate	8.95	1321	0.02	9.16*	1639	[0.85]
Hexyl tiglate	9.12	1333	0.05	8.41	1578	0.04
Bicycloelemene	9.18	1337	0.01	6.57*	1436	0.02
$\alpha$ -Terpinyl acetate	9.31	1346	0.24	9.22	1644	0.29
Cyclosativene I	9.46	1357	0.13			
Cyclosativene II	9.49	1360	0.27	6.66*	1443	0.41
$\alpha$ -Ylangene	9.54	1363	0.01	6.57*	1436	[0.02]
Italicene isomer	9.65*	1371	32.86	6.82	1455	0.80
$\alpha$ -Copaene	9.65*	1371	[32.86]	6.78	1452	1.46
Neryl acetate	9.65*	1371	[32.86]	9.79*	1691	31.05
7-Cubebene	9.70	1374	0.02	6.66*	1443	[0.41]
Geranyl acetate	9.86	1385	0.40	10.09	1716	0.41
Hexyl hexanoate	9.92*	1390	0.19	8.48	1583	0.03
$\alpha$ -Funebrene	9.92*	1390	[0.19]	7.38	1498	0.12
Isoitalicene	9.96	1393	0.16	7.42	1500	0.16
Italicene	10.03	1398	3.06	7.36	1496	3.07
$\alpha$ -Gurjunene	10.07	1400	0.07	7.11	1477	0.07
Isocaryophyllene	10.11	1403	0.10	7.76	1526	0.11
$\beta$ -Caryophyllene	10.24*	1413	5.15	8.01†	1546	5.22
<i>cis</i> - $\alpha$ -Bergamotene	10.24*	1413	[5.15]	7.82	1532	0.93
$\beta$ -Ylangene	10.24*	1413	[5.15]	7.68	1520	0.02
$\beta$ -Copaene	10.32	1419	0.02	7.90*	1538	[0.06]
<i>trans</i> - $\alpha$ -Bergamotene	10.51	1433	0.93	8.03†	1548	[5.22]
Italidione I (4,6,9-Trimethyldec-8-ene-3,5-dione)	10.59	1439	1.67	11.50*†	1840	6.88
$\alpha$ -Humulene	10.64*	1443	0.38	8.84	1612	0.36
Cadina-4,11-diene	10.64*	1443	[0.38]	8.66	1598	0.07
Neryl propionate	10.68	1446	0.63	10.49	1751	0.62
allo-Aromadendrene	10.78	1454	0.32	8.56	1590	0.12
( <i>E</i> )- $\beta$ -Farnesene	10.81	1456	0.89	9.16*	1639	[0.85]
$\alpha$ -Acoradiene	10.83	1457	0.47	8.90	1617	0.31
$\beta$ -Acoradiene	10.87	1460	0.44	9.00*	1626	[1.72]
4,5-diepi-Aristolochene	10.90	1463	0.19	9.00*	1626	[1.72]
Selina-4,11-diene	11.01	1471	1.68	9.00*	1626	[1.72]
$\gamma$ -Curcumene	11.14*†	1480	[20.07]	9.35*	1655	[10.89]
ar-Curcumene	11.14*†	1480	[20.07]	10.22*	1728	2.70
$\beta$ -Selinene	11.16*†	1482	20.07	9.46*	1664	5.71
Valencene	11.16*†	1482	[20.07]	9.40	1658	0.14

Italidione II isomer I (2,4,6,9-Tetramethyldec-8-ene-3,5-dione)	11.16*†	1482	[20.07]	11.50*†	1840	[6.88]
Italidione II isomer II (5,7,10-Trimethylundec-9-ene-4,6-dione)	11.24†	1488	5.81	11.50*†	1840	[6.88]
α-Selinene	11.27†	1490	[5.81]	9.54	1670	3.78
Eudesma-2,4(15),11-triene	11.32	1494	0.39			
Italidione II analog	11.35	1496	0.59			
δ-Amorphene	11.43	1502	0.50	9.46*	1664	[5.71]
β-Bisabolene	11.50*	1507	0.18	9.79*	1691	[31.05]
10-epi-Italicene ether	11.50*	1507	[0.18]	10.81	1778	0.08
γ-Cadinene	11.51	1508	0.34	9.90*	1700	0.39
β-Curcumene	11.53*	1510	0.65	9.79*	1691	[31.05]
7-epi-α-Selinene	11.53*	1510	[0.65]	9.96	1705	0.11
Sesquicineole	11.60	1516	0.05	9.90*	1700	[0.39]
δ-Cadinene	11.65	1519	0.86	9.99*	1708	1.04
trans-Cadina-1,4-diene	11.71	1524	0.03	10.22*	1728	[2.70]
Italicene ether	11.74	1527	0.22	11.06	1800	0.19
(E)-γ-Bisabolene	11.77	1529	0.10	9.99*	1708	[1.04]
α-Cadinene	11.81	1532	0.08	10.28	1733	0.10
Selina-3,7(11)-diene	11.85	1535	0.16	10.05	1713	0.10
(E)-α-Bisabolene	11.93	1542	0.16	10.22*	1728	[2.70]
Caryophyllenyl alcohol	12.17	1561	0.02	13.11	1990	0.03
(E)-Nerolidol	12.20	1563	0.12	13.30*	2008	0.14
Italidione III isomer I	12.33	1573	0.43			
Italidione III isomer II	12.39	1578	0.93			
Italidione III isomer III	12.48	1585	0.22			
Guaiol	12.57	1592	0.14	13.63	2040	0.14
Eudesm-5-en-11-ol	12.62	1596	0.27	13.86	2063	0.27
Copaborneol	12.66	1599	0.27	14.39	2116	0.29
Unknown [m/z 43, 81 (97), 135 (71), 95 (62), 204 (61), 71 (59), 207 (56)... 222 (3)]	12.73	1605	0.13	13.99	2076	0.12
Unknown [m/z 179, 161 (66), 119 (44), 95 (38), 105	12.78	1609	0.12	14.10	2087	0.09

(35)... 204 (24), 222 (1)]						
Unknown [m/z 182, 109 (58), 69 (50), 41 (42), 43 (40), 139 (31)... 235 (17), 250 (1)...]	12.85	1615	0.17	13.58	2036	0.20
Neryl angelate?	12.92	1621	0.09			
Caryophylladienol I	12.96*	1624	0.08	15.44	2225	0.02
1-epi-Cubenol	12.96*	1624	[0.08]	13.26	2004	0.04
γ-Eudesmol	13.00*	1627	0.16	14.30	2107	0.10
Caryophylladienol II	13.00*	1627	[0.16]	15.49	2230	0.04
τ-Muurolol	13.08*	1634	0.10	14.53	2130	0.03
τ-Cadinol	13.08*	1634	[0.10]	14.34	2111	0.04
β-Eudesmol	13.16*	1641	0.09	14.79	2157	0.05
α-Muurolol	13.16*	1641	[0.09]	14.64	2141	0.04
Selin-11-en-4α-ol	13.22*	1646	0.35	15.08	2187	0.18
α-Eudesmol	13.22*	1646	[0.35]	14.75	2154	0.03
Bulnesol	13.40	1660	0.03	14.70	2147	0.03
β-Bisabolol	13.47	1666	0.18	14.26	2103	0.15
epi-α-Bisabolol	13.63	1680	0.05	14.90	2168	0.06
α-Bisabolol	13.66	1682	0.03	14.86	2164	0.08
Neryl 4- methylvalerate?	13.77	1691	0.05	12.83	1963	0.05
Unknown [m/z 196, 69 (62), 109 (58), 41 (54), 139 (41)... 249 (21)...]	13.82	1696	0.04	14.03	2080	0.04
Geranyl 4- methylvalerate?	14.10	1720	0.04	13.30*	2008	[0.14]
Unknown [m/z 43, 69 (32), 198 (29), 41 (27), 93 (26)... 202 (20)...]	14.24	1731	0.13			
Unknown [m/z 82, 125 (40), 41 (35), 69 (31), 67 (27)... 236? (t)]	14.30	1737	0.01	15.19	2199	0.02
Unknown [m/z 109, 127 (46), 138 (45), 81 (27), 123 (25)... 220? (2)]	14.45	1750	0.03			
Unknown [m/z 136, 121 (74), 135 (55), 218 (36), 148 (33), 40 (42)... 236? (1)]	14.49	1753	0.04			
Unknown [m/z 109, 138 (71), 82	14.51	1755	0.04			

(42), 123 (41), 127 (38)...						
Unknown [m/z 109, 127 (46), 138 (45), 82 (34), 81 (31)... 236? (t)]	14.57*	1760	0.12	18.88	2618	0.02
Unknown [m/z 96, 41 (29), 178 (28), 43 (27)... 236 (2)]	14.57*	1760	[0.12]	16.57	2348	0.03
Unknown [m/z 109, 138 (75), 123 (45), 127 (42), 81 (30)...	14.69	1770	0.07	18.96	2628	0.07
Unknown [m/z 98, 82 (77), 83 (42), 137 (37), 41 (28)... 238 (1)]	14.76	1777	0.17			
Unknown [m/z 43, 82 (69), 41 (66), 93 (62), 96 (55), 55 (49), 67 (45), 154 (44)...	15.06	1803	0.11			
<b>Total identified</b>		<b>96.32%</b>			<b>94.02%</b>	
<b>Total reported</b>		<b>97.61%</b>			<b>94.75%</b>	

\*: 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