

Helichrysum

Helichrysum italicum var. *serotinum*

Batch No. FR-59097

France (Corsica)

Monoterpenes	12.23%	Sesquiterpenes	18.29%	Ketones	1.4%
limonene	5.65	γ curcumene	10.58	4-methyl-3-hexanone	0.41
α pinene	2.79	ar-curcumene	2.32	2-nonanone	0.25
γ terpinene	0.93	italicene	2.22	2,4-dimethyl-heptane-3,5-dione	0.25
β pinene	0.88	β curcumene + β bisabolene	0.68	2-undecanone	0.16
α fenchene	0.48	italicene isomer	0.63	pinocarvone	0.13
para cymene	0.35	cis α bergamotene	0.36	3-pentanone	0.07
α terpinene	0.26	trans-α-bergamotene + α guaiene	0.29	fenchone	0.04
terpinolene	0.25	α acoradiene	0.27	phytone	0.03
camphene	0.22	α humulene	0.22	artimesia ketone	0.03
(E) β ocimene	0.2	10-epi-β acoradiene	0.16	6-Methyl-5-hepten-2-one	0.02
myrcene	0.09	β caryophyllene	0.09	camphor	0.01
bornylene	0.04	α funebrene	0.09		
α thujene	0.02	(E) α bisabolene	0.09		
(Z) β ocimene	0.02	β selinene	0.08		
sabinene	0.01	δ cadinene	0.06		
tricyclene	0.01	γ cadinene	0.05	Other	11.38%
β fenchene	0.01	isoitalicene	0.04	italidione I	3.69
thuja-2,4(10) diene	0.01	α copaene	0.02	Italidione II isomer I + Italidione II isomer II	2.19
α phellandrene	0.01	(E) γ bisabolene	0.02	italidione III isomer II	1.47
		β copaene	0.01	Unknown	1.45
		trans calamenene	0.01	italidione III isomer I	0.55
				4,6-dimethylocatane-3,5-dione epimer II	0.45
Monoterpenols	4.98%	Sesquiterpenols	4.16%	italidione III isomer III	0.44
nerol	2.75	eudesm-5-en-11-ol	1.28	4,6-dimethylocatane-3,5-dione epimer I	0.38
linalol	1.13	guaiol	0.78	italidione II analog	0.22
α terpineol	0.53	eudesmol analog	0.73	2-methyl-2-heptene	0.20
terpinene-4-ol	0.41	β-eudesmol	0.50	2-methyl-3-pentanone	0.19
borneol	0.08	α eudesmol	0.34	2-pentylfuran	0.06
endo-fenchol	0.08	γ-eudesmol	0.24	nonanol	0.03
myrtenol	0.06	bulnesol	0.17	6-methyl-5-hepten-2-ol	0.02
trans-pinocarveol	0.02	β bisabolol	0.12	2-ethylfuran	0.01
camphene hydrate	0.02	10-epi-γ-eudesmol	0.10	octane	0.01
cis linalool oxide (fur)	0.01	caryophyllenyl alcohol	0.10	2-methyloctane	0.01
		α bisabolol	0.07	nonane	0.01
		(E) nerolidol	0.03		
		hinesol	0.03		
Phenols					
methyl (E) isoeugenol	0.10				
elemicin	0.07				
para-methylanisole	0.04				

Aldehydes	0.27%	Esters	38.45%	Ethers	1.1%
nonanal	0.20	ceryl acetate	32.46	1,8 cineole	0.42
α campholenal	0.03	ceryl propionate	4.65	10-epi italicene ether	0.25
2-methylbutyral	0.01	ceryl angelate	0.08	italicene ether	0.20
hexanal	0.01	2-methylbutyl angelate	0.34	isoamyl angelate	0.11
heptanal	0.01	geranyl 4 methylvalerate	0.09	nerol oxide	0.08
geranial	0.01	isobutyl angelate	0.14	trans-Dehydroxylinalool oxide	0.03
		geranyl acetate	0.08	methanethiol 5-methyl hexanoate	0.01
		isobutyl 2-methylbutyrate	0.04		
		isobutyl isovalerate	0.05		
		(3Z) hexenyl acetate	0.02		
		hexyl 2-methylbutyrate	0.15		
		linalyl acetate	0.02		
		(3Z) hexenyl angelate	0.05		
		α terpinyl acetate	0.17		
		hexyl hexanoate	0.08		
		ceryl 4 methylvalerate	0.03		

Date : October 07, 2020

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 20I23-NGA01

Customer identification : Helichrysum Corsican Sero - FR-59097

Type : Essential oil

Source : *Helichrysum italicum* subsp. *serotinum*

Customer : Nature's Gift Aromatherapy

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 : Sylvain Mercier, M. Sc., Chimiste

Analysis date : October 06, 2020

Checked and approved by :

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

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PYHSICOCHEMICAL DATA

Physical aspect: Light yellow liquid

Refractive index: 1.4697 ± 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
Isobutyral	tr	Aliphatic aldehyde
2-Methyl-3-buten-2-ol	tr	Aliphatic alcohol
Isovaleral	tr	Aliphatic aldehyde
2-Methylbutyral	0.01	Aliphatic aldehyde
3-Pentanone	0.07	Aliphatic ketone
2-Ethylfuran	0.01	Furan
Isoamyl alcohol	tr	Aliphatic alcohol
2-Methylbutanol	tr	Aliphatic alcohol
2-Methyl-3-pentanone	0.19	Aliphatic ketone
Unknown	0.02	Unknown
Unknown	0.06	Unknown
Hexanal	0.01	Aliphatic aldehyde
Octane	0.01	Alkane
2-Methyl-2-heptene	0.20	Alkene
4-Methyl-3-hexanone	0.41	Aliphatic ketone
Unknown	tr	Unknown
(3Z)-Hexenol	tr	Aliphatic alcohol
2-Methyloctane	0.01	Alkane
Isoamyl acetate	tr	Aliphatic ester
Nonane	0.01	Alkane
Bornylene	0.04	Monoterpene
Heptanal	0.01	Aliphatic aldehyde
Tricyclene	0.01	Monoterpene
Isobutyl isobutyrate	tr	Aliphatic ester
α-Thujene	0.02	Monoterpene
α-Pinene	2.79	Monoterpene
β-Fenchene?	0.01	Monoterpene
Campheene	0.22	Monoterpene
α-Fenchene	0.48	Monoterpene
Thuja-2,4(10)-diene	0.01	Monoterpene
β-Pinene	0.88	Monoterpene
Sabinene	0.01	Monoterpene
6-Methyl-5-hepten-2-one	0.02	Aliphatic ketone
2-Pentylfuran	0.06	Furan
Myrcene	0.09	Monoterpene
trans-Dehydroxylinalool oxide	0.03	Monoterpenic ether
6-Methyl-5-hepten-2-ol	0.02	Aliphatic alcohol
α-Phellandrene	0.01	Monoterpene
Unknown	0.05	Monoterpene
Isobutyl 2-methylbutyrate	0.04	Aliphatic ester
Δ3-Carene	tr	Monoterpene
Isobutyl isovalerate	0.05	Aliphatic ester
(3Z)-Hexenyl acetate	0.02	Aliphatic ester
α-Terpinene	0.26	Monoterpene
para-Methylanisole	0.04	Simple phenolic

para-Cymene	0.35	Monoterpene
Limonene	5.65	Monoterpene
1,8-Cineole	0.42	Monoterpenic ether
(Z)-β-Ocimene	0.02	Monoterpene
(E)-β-Ocimene	0.20	Monoterpene
Isobutyl angelate	0.14	Aliphatic ester
γ-Terpinene	0.93	Monoterpene
Artemisia ketone	0.03	Monoterpenic ketone
cis-Linalool oxide (fur.)	0.01	Monoterpenic alcohol
Fenchone	0.04	Monoterpenic ketone
Terpinolene	0.25	Monoterpene
2-Nonanone	0.25	Aliphatic ketone
2,4-Dimethylheptane-3,5-dione	0.25	β-Diketone
Linalool	1.13	Monoterpenic alcohol
Nonanal	0.20	Aliphatic aldehyde
endo-Fenchol	0.08	Monoterpenic alcohol
α-Campholenal	0.03	Monoterpenic aldehyde
trans-Pinocarveol	0.02	Monoterpenic alcohol
Camphor	0.01	Monoterpenic ketone
Methanethiol 5-methylhexanoate?	0.01	Aliphatic thioester
Camphepane hydrate	0.02	Monoterpenic alcohol
Isoamyl angelate	0.11	Aliphatic ester
Nerol oxide	0.08	Aliphatic ether
Pinocarvone	0.13	Monoterpenic ketone
2-Methylbutyl angelate	0.34	Aliphatic ester
Borneol	0.08	Monoterpenic alcohol
Terpinen-4-ol	0.41	Monoterpenic alcohol
Nonanol	0.03	Aliphatic alcohol
4,6-Dimethyloctane-3,5-dione epimer I	0.38	β-Diketone
4,6-Dimethyloctane-3,5-dione epimer II	0.45	β-Diketone
α-Terpineol	0.53	Monoterpenic alcohol
Myrtenol	0.06	Monoterpenic alcohol
Unknown	0.03	Unknown
Unknown	0.03	Unknown
Nerol	2.75	Monoterpenic alcohol
Hexyl 2-methylbutyrate	0.15	Aliphatic ester
Unknown	0.12	Aliphatic ester
Linalyl acetate	0.02	Monoterpenic ester
Unknown	0.01	Aliphatic ester
Geranal	0.01	Monoterpenic aldehyde
(3Z)-Hexenyl angelate	0.05	Aliphatic ester
2-Undecanone	0.16	Aliphatic ketone
α-Terpinyl acetate	0.17	Monoterpenic ester
Neryl acetate	32.46	Monoterpenic ester
Italicene isomer	0.63	Sesquiterpene
α-Copaene	0.02	Sesquiterpene
Geranyl acetate	0.08	Monoterpenic ester
α-Funebrene	0.09	Sesquiterpene
Hexyl hexanoate	0.08	Aliphatic ester
Isoitalicene	0.04	Sesquiterpene
Unknown	0.30	Unknown
Italicene	2.22	Sesquiterpene

<i>cis</i> - α -Bergamotene	0.36	Sesquiterpene
β -Caryophyllene	0.09	Sesquiterpene
β -Copaene	0.01	Sesquiterpene
<i>trans</i> - α -Bergamotene	0.29*	Sesquiterpene
α -Guaiene	[0.29]*	Sesquiterpene
Italidione I (4,6,9-Trimethyldec-8-ene-3,5-dione)	3.69	β -Diketone
α -Humulene	0.22	Sesquiterpene
α -Acoradiene	0.27	Sesquiterpene
Neryl propionate	4.65	Monoterpenic ester
10-epi- β -Acoradiene	0.16	Sesquiterpene
β -Selinene	0.08	Sesquiterpene
γ -Curcumene	10.58	Sesquiterpene
ar-Curcumene	2.32	Sesquiterpene
Italidione II isomer I (2,4,6,9-Tetramethyldec-8-ene-3,5-dione)	2.19*	β -Diketone
Italidione II isomer II (5,7,10-Trimethylundec-9-ene-4,6-dione)	[2.19]*	β -Diketone
Italidione II analog	0.22	β -Diketone
Methyl (<i>E</i>)-isoeugenol	0.10	Phenylpropanoid
Unknown	0.18	Sesquiterpene
10-epi-Italicene ether	0.25	Sesquiterpenic ether
γ -Cadinene	0.05	Sesquiterpene
β -Curcumene	0.68*	Sesquiterpene
β -Bisabolene	[0.68]*	Sesquiterpene
δ -Cadinene	0.06	Sesquiterpene
<i>trans</i> -Calamenene	0.01	Sesquiterpene
Italicene ether	0.20	Sesquiterpenic ether
(<i>E</i>)- γ -Bisabolene	0.02	Sesquiterpene
(<i>E</i>)- α -Bisabolene	0.09	Sesquiterpene
Elemicin	0.07	Phenylpropanoid
Caryophyllenyl alcohol	0.10	Sesquiterpenic alcohol
(<i>E</i>)-Nerolidol	0.03	Sesquiterpenic alcohol
Italidione III isomer I	0.55	β -Diketone
Italidione III isomer II	1.47	β -Diketone
Italidione III isomer III	0.44	β -Diketone
Unknown	0.23	Oxygenated sesquiterpene
Guaiol	0.78	Sesquiterpenic alcohol
Eudesm-5-en-11-ol	1.28	Sesquiterpenic alcohol
10-epi- γ -Eudesmol	0.10	Sesquiterpenic alcohol
Neryl angelate?	0.08	Monoterpenic ester
γ -Eudesmol	0.24	Sesquiterpenic alcohol
Eudesmol analog?	0.73	Sesquiterpenic alcohol
Hinesol	0.03	Sesquiterpenic alcohol
Unknown	0.04	Oxygenated sesquiterpene
β -Eudesmol	0.50	Sesquiterpenic alcohol
α -Eudesmol	0.34	Sesquiterpenic alcohol
Bulnesol	0.17	Sesquiterpenic alcohol
β -Bisabolol	0.12	Sesquiterpenic alcohol
α -Bisabolol	0.07	Sesquiterpenic alcohol
Neryl 4-methylvalerate?	0.03	Monoterpenic ester
Unknown	0.01	Unknown
Geranyl 4-methylvalerate?	0.09	Monoterpenic ester

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Unknown	0.07	Oxygenated sesquiterpene
Unknown	0.03	Oxygenated sesquiterpene
Unknown	0.04	Oxygenated sesquiterpene
Unknown	0.01	Oxygenated sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.07	Oxygenated sesquiterpene
Unknown	0.07	Oxygenated sesquiterpene
Unknown	0.02	Unknown
Phytone	0.03	Terpenic ketone
Unknown	0.03	Unknown
Consolidated total	92.96%	

*: Individual compounds concentration could not be found due to overlapping coelutions on columns considered

[xx]: Duplicate percentage due to coelutions, not taken into account in the consolidated total

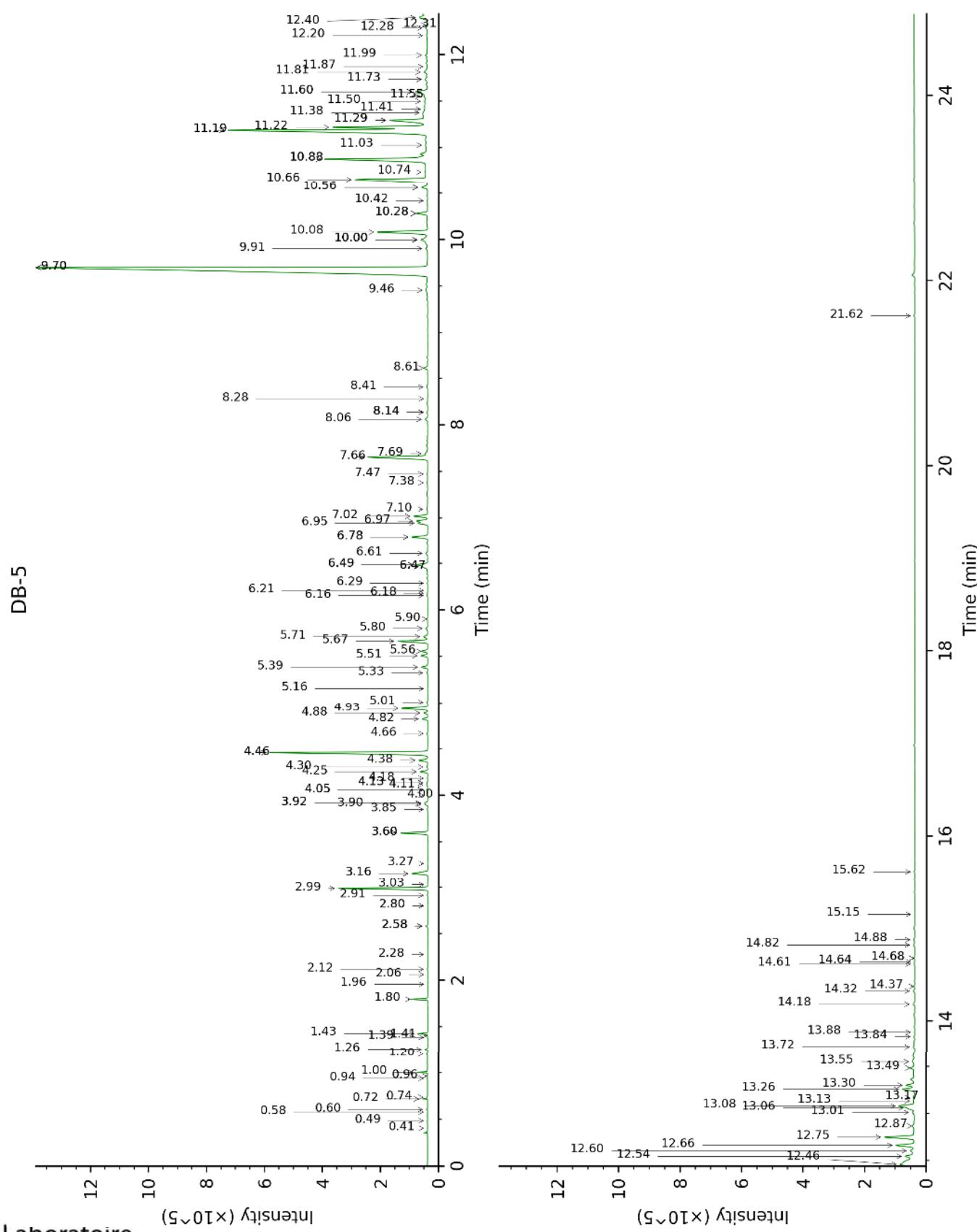
tr: The compound has been detected below 0.005% of total signal.

Note: no correction factor was applied

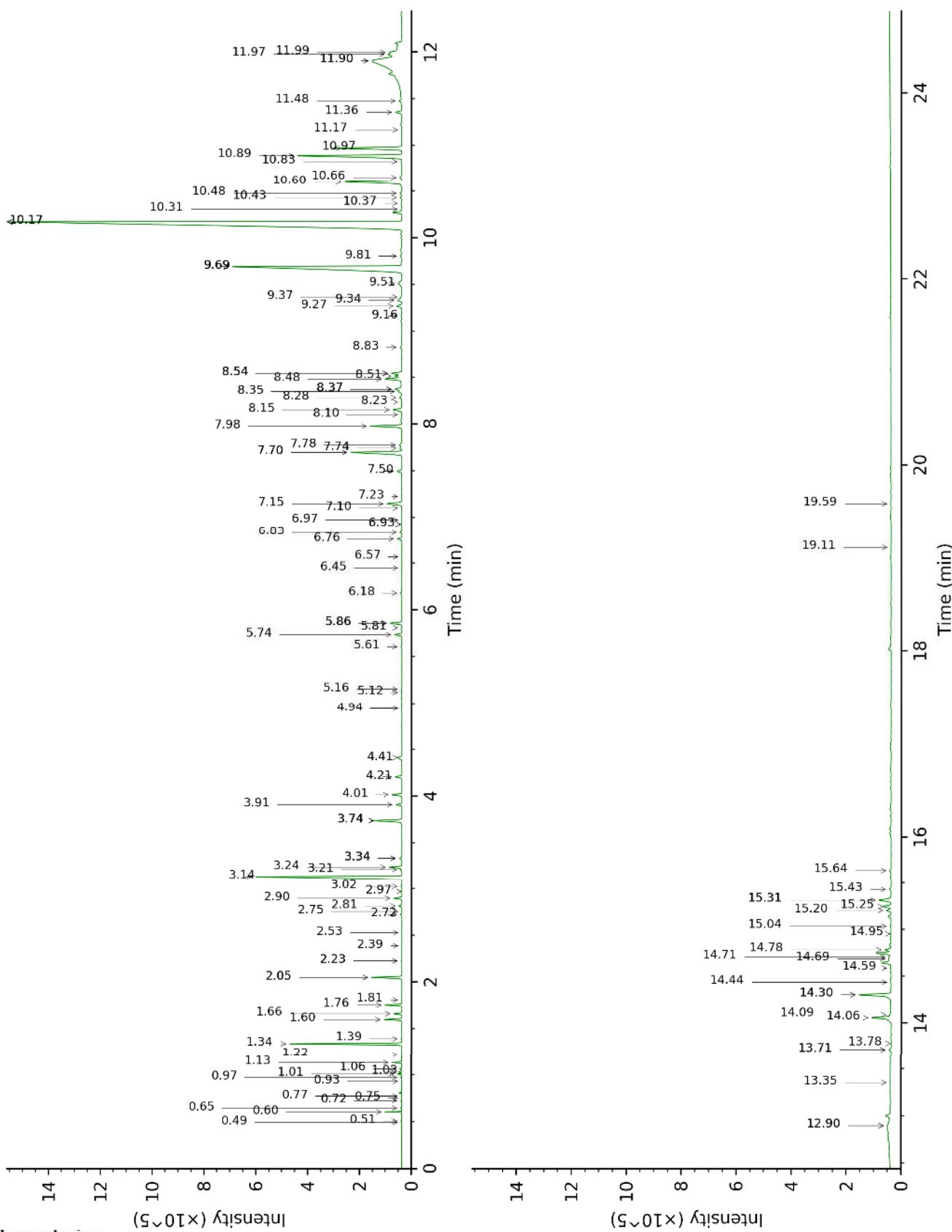
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm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

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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	534	tr	0.49	778	tr
2-Methyl-3-buten-2-ol	0.49	605	tr			
Isovaleral	0.58	640	tr	0.75	884	tr
2-Methylbutyral	0.60	650	0.01	0.72	874	0.01
3-Pentanone	0.72	694	0.07	1.01	934	0.08
2-Ethylfuran	0.74	701	0.01	0.93	921	tr
Isoamyl alcohol	0.94	733	tr	3.34*	1170	0.10
2-Methylbutanol	0.96	736	tr	3.34*	1170	[0.10]
2-Methyl-3-pentanone	1.00	742	0.19	1.13	954	0.19
Unknown [m/z 73, 41 (54), 87 (50), 56 (47), 54 (29), 55 (25), 100 (23)... 115? (6)]	1.20	771	0.02	0.97	928	0.02
Unknown [m/z 73, 87 (52), 41 (45), 56 (42), 100 (29)...]	1.26	780	0.06	1.03	937	0.06
Hexanal	1.39	800	0.01	1.81	1039	0.01
Octane	1.41	802	0.01	0.51	789	0.01
2-Methyl-2-heptene	1.43	805	0.20	0.60	830	0.20
4-Methyl-3-hexanone	1.80	836	0.41	1.76	1034	0.42
Unknown [m/z 56, 57 (93), 41 (87), 43 (81), 69 (75), 55 (59), 102 (48)...]	1.96	850	tr			
(3Z)-Hexenol	2.06	859	tr	5.81	1349	0.01
2-Methyloctane	2.12	864	0.01	0.64	845	0.01
Isoamyl acetate	2.28	877	tr	2.39	1096	tr
Nonane	2.58*	903	0.06	0.77	892	0.01
Bornylene	2.58*	903	[0.06]	1.06	943	0.04
Heptanal	2.58*	903	[0.06]	2.97	1142	0.01
Tricyclene	2.80*	917	0.01	1.22	969	0.01
Isobutyl isobutyrate	2.80*	917	[0.01]	2.05*	1063	0.89
α-Thujene	2.91	925	0.02	1.39	998	0.02
α-Pinene	2.99	930	2.79	1.34	989	2.74
β-Fenchene?	3.03	932	0.01			
Camphene	3.16*	941	0.70	1.66	1024	0.22
α-Fenchene	3.16*	941	[0.70]	1.60	1018	0.48
Thuja-2,4(10)-diene	3.27	949	0.01	2.23*	1080	0.02
β-Pinene	3.60*	970	0.91	2.05*	1063	[0.89]
Sabinene	3.60*	970	[0.91]	2.23*	1080	[0.02]
6-Methyl-5-	3.85	987	0.02	5.12	1299	0.02

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hepten-2-one						
2-Pentylfuran	3.90	991	0.06	3.74*†	1201	0.98
Myrcene	3.92*	992	0.13	2.81	1130	0.09
<i>trans</i> -Dehydroxylinalool oxide	3.92*	992	[0.13]	3.34*	1170	[0.10]
6-Methyl-5-hepten-2-ol	4.00	998	0.02	6.93*	1431	0.04
α-Phellandrene	4.06*	1001	0.06	2.75	1125	0.01
Unknown [m/z = 123, 43 (16), 152 (14), 124 (9), 137 (6)]	4.06*	1001	[0.06]	2.72	1122	0.05
Isobutyl 2-methylbutyrate	4.11†	1005	0.08	3.02	1146	0.04
Δ3-Carene	4.13*†	1006	[0.08]	2.53	1107	tr
Isobutyl isovalerate	4.13*†	1006	[0.08]	3.21	1161	0.05
(3Z)-Hexenyl acetate	4.18	1009	0.02	4.94	1288	0.01
α-Terpinene	4.25	1014	0.26	2.90	1136	0.26
para-Methylanisole	4.30	1017	0.04	6.18	1376	0.05
para-Cymene	4.38	1021	0.35	4.02	1221	0.34
Limonene	4.46*	1026	6.21	3.14	1155	5.65
1,8-Cineole	4.46*	1026	[6.21]	3.24	1163	0.42
(Z)-β-Ocimene	4.66	1039	0.02	3.74*†	1201	[0.98]
(E)-β-Ocimene	4.82	1049	0.20	3.91	1214	0.20
Isobutyl angelate	4.88	1053	0.14	4.41	1250	0.22
γ-Terpinene	4.93	1056	0.93	3.74*†	1201	[0.98]
Artemisia ketone	5.01	1061	0.03	5.16	1301	0.03
cis-Linalool oxide (fur.)	5.16	1070	0.01	6.57	1404	0.01
Fenchone	5.33	1081	0.04	5.61	1334	0.04
Terpinolene	5.39	1085	0.25	4.21	1235	0.23
2-Nonanone	5.51	1092	0.25	5.74	1344	0.26
2,4-Dimethylheptane-3,5-dione	5.56	1095	0.25	7.50	1473	0.18
Linalool	5.67	1102	1.13	7.98	1510	1.11
Nonanal	5.72	1105	0.20	5.86*	1352	0.42
endo-Fenchol	5.80	1111	0.08	8.28	1533	0.09
α-Campholenal	5.90	1117	0.03	6.98	1434	0.01
<i>trans</i> -Pinocarveol	6.16	1133	0.02	9.16	1602	0.06
Camphor	6.18	1135	0.01	7.23	1453	0.02
Methanethiol 5-methylhexanoate?	6.21	1137	0.01			
Camphene hydrate	6.29	1142	0.02	8.48†	1549	[1.41]
Isoamyl angelate	6.47*	1153	0.18	5.86*	1352	[0.42]
Nerol oxide	6.47*	1153	[0.18]	6.83	1424	0.08
Pinocarvone	6.49*	1154	0.47	7.78	1494	0.13

2-Methylbutyl angelate	6.49*	1154	[0.47]	5.86*	1352	[0.42]
Borneol	6.61	1162	0.08	9.69*	1645	11.36
Terpinen-4-ol	6.78*	1173	0.63	8.54*†	1553	[1.41]
Nonanol	6.78*	1173	[0.63]	9.37	1619	0.03
4,6-Dimethyloctane-3,5-dione epimer I	6.95	1184	0.38	8.51†	1551	1.41
4,6-Dimethyloctane-3,5-dione epimer II	6.97	1185	0.45	8.54*†	1553	[1.41]
α-Terpineol	7.02	1188	0.53	9.69*	1645	[11.36]
Myrtenol	7.10	1193	0.06	10.83	1739	0.05
Unknown [m/z 81, 57 (91), 168 (73), 67 (52), 140 (45), 41 (36), 113 (27)...]	7.38	1212	0.03			
Unknown [m/z 81, 109 (85), 168 (72), 57 (69), 67 (58), 41 (49), 140 (45)...]	7.47	1218	0.03			
Nerol	7.66	1230	2.75	10.97	1751	2.61
Hexyl 2-methylbutyrate	7.69	1232	0.15	6.45	1395	0.02
Unknown [m/z 83, 55 (29), 57 (24), 100 (21), 104 (13)...]	8.06	1257	0.12	6.76	1418	0.17
Linalyl acetate	8.14*	1262	0.03	8.10	1519	0.02
Unknown [m/z 83, 55 (30), 57 (23), 100 (20), 98 (14)...]	8.14*	1262	[0.03]	6.93*	1431	[0.04]
Geranial	8.28	1272	0.01	10.17*	1684	32.65
(3Z)-Hexenyl angelate	8.41	1280	0.05	8.23	1530	0.03
2-Undecanone	8.61	1294	0.16	8.54*†	1553	[1.41]
α-Terpinyl acetate	9.46	1352	0.17	9.69*	1645	[11.36]
Neryl acetate	9.70*	1369	33.11	10.17*	1684	[32.65]
Italicene isomer	9.70*	1369	[33.11]	7.15	1447	0.63
α-Copaene	9.70*	1369	[33.11]	7.10	1444	0.02
Geranyl acetate	9.91	1384	0.08	10.48	1709	0.09
α-Funebrene	10.00*	1390	0.51	7.74	1492	0.09
Hexyl hexanoate	10.00*	1390	[0.51]	8.83	1576	0.08
Isoitalicene	10.00*	1390	[0.51]	7.70*	1488	2.26
Unknown [m/z 119, 43 (57), 91 (50), 134 (36), 93 (29), 79 (28)...]	10.00*	1390	[0.51]			
Italicene	10.08	1396	2.22	7.70*	1488	[2.26]
cis-α-Bergamotene	10.28*	1411	0.45	8.15	1523	0.36

β-Caryophyllene	10.28*	1411	[0.45]	8.37*†	1540	[0.46]
β-Copaene	10.42	1421	0.01	8.35†	1538	0.46
<i>trans</i> -α-Bergamotene	10.56*	1431	0.29	8.37*†	1540	[0.46]
α-Guaiene	10.56*	1431	[0.29]	8.37*†	1540	[0.46]
Italidione I (4,6,9-Trimethyldec-8-ene-3,5-dione)	10.66	1438	3.69	11.90*†	1832	10.49
α-Humulene	10.74	1444	0.22	9.27	1611	0.23
α-Acoradiene	10.88*	1455	5.44	9.34	1616	0.27
Neryl propionate	10.88*	1455	[5.44]	10.89	1744	4.65
10-epi-β-Acoradiene	11.03	1466	0.16	9.51	1630	0.30
β-Selinene	11.19*†	1478	15.02	9.81	1654	0.08
γ-Curcumene	11.19*†	1478	[15.02]	9.69*	1645	[11.36]
αr-Curcumene	11.22†	1480	[15.02]	10.60	1720	2.32
Italidione II isomer I (2,4,6,9-Tetramethyldec-8-ene-3,5-dione)	11.30*	1486	2.19	11.97†	1838	[10.49]
Italidione II isomer II (5,7,10-Trimethylundec-9-ene-4,6-dione)	11.30*	1486	[2.19]	11.99†	1840	[10.49]
Italidione II analog	11.38	1492	0.22			
Methyl (<i>E</i>)-isoeugenol	11.41	1495	0.10	14.95	2116	0.03
Unknown [m/z 119, 91 (14), 120 (10), 117 (9)... 200? (2)]	11.50	1501	0.18	11.90*†	1832	[10.49]
10-epi-Italicene ether	11.55	1506	0.25	11.36	1784	0.24
γ-Cadinene	11.60*	1509	0.73	10.31	1695	0.05
β-Curcumene	11.60*	1509	[0.73]	10.17*	1684	[32.65]
β-Bisabolene	11.60*	1509	[0.73]	10.17*	1684	[32.65]
δ-Cadinene	11.73*	1520	0.14	10.37	1700	0.06
<i>trans</i> -Calamenene	11.73*	1520	[0.14]	11.17	1768	0.01
Italicene ether	11.81	1526	0.20	11.48	1794	0.13
(<i>E</i>)-γ-Bisabolene	11.87	1530	0.02	10.43	1705	0.08
(<i>E</i>)-α-Bisabolene	11.99	1540	0.09	10.66	1725	0.09
Elemicin	12.20	1557	0.07	15.43	2163	0.08
Caryophyllenyl alcohol	12.28	1563	0.10	13.71*	1996	0.11
(<i>E</i>)-Nerolidol	12.31	1565	0.03	13.78	2002	0.01
Italidione III isomer I	12.40	1572	0.55	12.90*†	1920	2.06
Italidione III isomer II	12.46	1576	1.47	12.90*†	1920	[2.06]
Italidione III isomer III	12.54	1583	0.44			
Unknown [m/z	12.60	1588	0.23	14.30*	2052	1.41

120, 59 (55), 121 (24), 93 (24), 81 (23), 107 (20)...						
Guaiol	12.66	1593	0.78	14.06	2029	0.91
Eudesm-5-en-11-ol	12.75	1599	1.28	14.30*	2052	[1.41]
10-epi-γ-Eudesmol	12.87	1609	0.10	14.09	2032	0.06
Neryl angelate?	13.01	1621	0.08			
γ-Eudesmol	13.06†	1625	0.97	14.78	2099	0.24
Eudesmol analog?	13.08†	1627	[0.97]			
Hinesol	13.14	1631	0.03	15.04	2124	0.04
Unknown [m/z 59, 161 (53), 81 (47), 204 (40), 107 (36), 95 (33), 93 (33)... 222 (1)]	13.17	1634	0.04	14.44	2065	0.02
β-Eudesmol	13.26	1642	0.50	15.31*	2152	0.56
α-Eudesmol	13.30	1645	0.34	15.25	2145	0.34
Bulnesol	13.49	1660	0.17	15.20	2141	0.18
β-Bisabolol	13.55	1666	0.12	14.71	2091	0.09
α-Bisabolol	13.72	1680	0.07	15.31*	2152	[0.56]
Neryl 4-methylvalerate?	13.84	1689	0.03	13.35	1963	0.04
Unknown [m/z 196, 69 (62), 109 (58), 41 (54), 139 (41)... 249 (21)...	13.88	1693	0.01	14.59	2080	0.04
Geranyl 4-methylvalerate?	14.18	1719	0.09	13.71*	1996	[0.11]
Unknown [m/z 43, 69 (32), 198 (29), 41 (27), 93 (26)... 202 (20)...	14.32	1731	0.07			
Unknown [m/z 82, 125 (40), 41 (35), 69 (31), 67 (27)... 236? (t)]	14.37	1736	0.03	15.64	2184	0.08
Unknown [m/z 136, 121 (74), 135 (55), 218 (36), 148 (33), 40 (42)... 236? (1)]	14.61	1756	0.04			
Unknown [m/z 109, 138 (71), 82 (42), 123 (41), 127 (38)...	14.64	1759	0.01	19.11	2560	0.02
Unknown [m/z 96, 41 (29), 178 (28), 43 (27)... 236 (2)]	14.68*	1762	0.05			
Unknown [m/z 109, 127 (46), 138	14.68*	1762	[0.05]	19.59	2616	0.02

(45), 82 (34), 81 (31)... 236? (t)]					
Unknown [m/z 109, 138 (75), 123 (45), 127 (42), 81 (30)...	14.82	1774	0.07		
Unknown [m/z 98, 82 (77), 83 (42), 137 (37), 41 (28)... 238 (1)]	14.88	1779	0.07		
Unknown [m/z 43, 82 (69), 41 (66), 93 (62), 96 (55), 55 (49), 67 (45), 154 (44)...	15.15	1803	0.02		
Phytone	15.62	1846	0.03	14.69	2089
Unknown [m/z 81, 69 (80), 137 (48), 95 (35), 41 (35), 98 (33)...	21.62	2472	0.03		
Total identified	94.86%			93.99%	
Total reported	95.93%			94.48%	

*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not taken into account in the consolidated total

t: 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