

Date : September 14, 2021

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 21I07-PTH02

Customer identification : Ginger Steam Distilled - China - GO0102216R

Type : Essential oil

Source : *Zingiber officinale*

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 : Seydou Ka, Ph. D.

Analysis date : September 08, 2021

Checked and approved by :

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

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PYHSICOCHEMICAL DATA

Physical aspect: Yellow liquid

Refractive index: 1.4903 ± 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
Isovaleral	tr	Aliphatic aldehyde
2-Methylbutyral	tr	Aliphatic aldehyde
Toluene	0.02	Simple phenolic
Hexanal	0.19	Aliphatic aldehyde
2-Methyl-2-heptene	tr	Alkene
Hexanol	tr	Aliphatic alcohol
Nonane	0.01	Alkane
2-Heptanol	0.06	Aliphatic alcohol
Tricyclene	0.12	Monoterpene
α-Thujene	0.01	Monoterpene
α-Pinene	2.28	Monoterpene
α-Fenchene	0.01	Monoterpene
Camphene	6.12	Monoterpene
Unknown	0.01	Monoterpene
β-Pinene	0.26	Monoterpene
Sabinene	0.07	Monoterpene
6-Methyl-5-hepten-2-one	0.52	Aliphatic ketone
Myrcene	0.75	Monoterpene
6-Methyl-5-hepten-2-ol	0.01	Aliphatic alcohol
Pseudolimonene	0.03	Monoterpene
Unknown	0.01	Unknown
α-Phellandrene	0.22	Monoterpene
Octanal	0.12	Aliphatic aldehyde
Δ3-Carene	0.04	Monoterpene
α-Terpinene	0.02	Monoterpene
para-Cymene	0.08	Monoterpene
Limonene	1.20	Monoterpene
1,8-Cineole	3.97	Monoterpenic ether
β-Phellandrene	2.55	Monoterpene
(Z)-β-Ocimene	tr	Monoterpene
(E)-β-Ocimene	tr	Monoterpene
2,6-Dimethyl-5-heptenal (melonal)	0.01	Aliphatic aldehyde
γ-Terpinene	0.03	Monoterpene
cis-Sabinene hydrate	0.01	Monoterpenic alcohol
cis-Linalool oxide (fur.)	0.01	Monoterpenic alcohol
Terpinolene	0.18	Monoterpene
trans-Linalool oxide (fur.)	0.01	Monoterpenic alcohol
para-Cymenene	0.01	Monoterpene
2-Nonanone	0.05	Aliphatic ketone
Unknown	0.14	Oxygenated monoterpene
Rosefuran	0.15	Monoterpenic ether
Linalool	0.24	Monoterpenic alcohol
2-Nonanol	0.05	Aliphatic alcohol
endo-Fenchol	0.04	Monoterpenic alcohol
Bornyl methyl ether	0.02	Monoterpenic ether

<i>trans</i> -Pinene hydrate	0.03	Monoterpnic alcohol
(E)-4,8-Dimethylnona-1,3,7-triene	0.04	Terpene derivative
<i>trans</i> -para-Menth-2-en-1-ol	0.02	Monoterpnic alcohol
Camphor	0.07	Monoterpnic ketone
Camphene hydrate	0.08	Monoterpnic alcohol
exo-Isocitral	0.01	Monoterpnic aldehyde
Isoborneol	0.02	Monoterpnic alcohol
Citronellal	0.06	Monoterpnic aldehyde
Borneol	0.83	Monoterpnic alcohol
Isoneral	0.04	Monoterpnic aldehyde
Terpinen-4-ol	0.16	Monoterpnic alcohol
Cryptone	0.02	Normonoterpnic ketone
4-Methylacetophenone	0.01	Simple phenolic
para-Cymen-8-ol	0.03	Monoterpnic alcohol
α -Terpineol	0.49	Monoterpnic alcohol
Myrtenol	0.04	Monoterpnic alcohol
Decanal	0.15	Aliphatic aldehyde
<i>trans</i> -Carveol	0.03	Monoterpnic alcohol
Bornyl formate	0.01	Monoterpnic ester
Nerol	0.01	Monoterpnic alcohol
Citronellol	0.13	Monoterpnic alcohol
Neral	0.13	Monoterpnic aldehyde
Unknown	0.05	Oxygenated monoterpene
Geraniol	0.27	Monoterpnic alcohol
Geranial	0.21	Monoterpnic aldehyde
Citronellyl formate	0.02	Monoterpnic ester
Bornyl acetate	0.10	Monoterpnic ester
2-Undecanone	0.22	Aliphatic ketone
2-Undecanol	0.04	Aliphatic alcohol
Carvacrol	0.02	Monoterpnic alcohol
3-Oxo-para-menth-1-en-7-al	0.01	Monoterpnic ketone
δ -Elemene	0.11	Sesquiterpene
α -Cubebene	0.03	Sesquiterpene
Citronellyl acetate	0.06	Monoterpnic ester
Cyclosativene I	0.15	Sesquiterpene
8-Hydroxy-iso-menthol	0.04	Monoterpnic alcohol
Unknown	0.06	Unknown
Cyclosativene II	0.02	Sesquiterpene
Neryl acetate	0.02	Monoterpnic ester
α -Copaene	0.45	Sesquiterpene
Unknown	0.08	Unknown
Unknown	tr	Unknown
Geranyl acetate	0.33	Monoterpnic ester
β -Cubebene	0.07	Sesquiterpene
β -Elemene	0.72	Sesquiterpene
Vanillin	tr	Simple phenolic
γ -4-Dimethylbenzenebutyral	0.01	Simple phenolic
Sesquithujene	0.26	Sesquiterpene
β -Caryophyllene	0.10	Sesquiterpene
β -Copaene	0.05	Sesquiterpene
Unknown	0.01	Unknown
γ -Elemene	0.20	Sesquiterpene

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<i>trans</i> - α -Bergamotene	0.13	Sesquiterpene
Unknown	0.05	Unknown
Sesquisabinene A	0.05	Sesquiterpene
Unknown	0.09	Sesquiterpene
α -Humulene	0.05	Sesquiterpene
allo-Aromadendrene	0.29	Sesquiterpene
Sesquisabinene B	0.28	Sesquiterpene
(<i>E</i>)- β -Farnesene	0.37	Sesquiterpene
Selina-4,11-diene	0.17	Sesquiterpene
γ -Muurolene	0.18	Sesquiterpene
Germacrene D	1.20	Sesquiterpene
γ -Curcumene	0.12	Sesquiterpene
β -Selinene	0.28	Sesquiterpene
ar-Curcumene	7.07	Sesquiterpene
Unknown	0.95	Sesquiterpene
δ -Selinene	0.14	Sesquiterpene
epi-Cubebol	0.05	Sesquiterpenic alcohol
α -Selinene	0.14	Sesquiterpene
Bicyclosesquiphellandrene?	2.03	Sesquiterpene
α -Muurolene	0.17	Sesquiterpene
α -Zingiberene	30.20	Sesquiterpene
γ -Cadinene	0.19	Sesquiterpene
Cubebol	0.07	Sesquiterpenic alcohol
β -Bisabolene	6.28	Sesquiterpene
(<i>3E,6E</i>)- α -Farnesene	4.12	Sesquiterpene
7-epi- α -Selinene	0.34	Sesquiterpene
<i>trans</i> -Calamenene	0.01	Sesquiterpene
(<i>E</i>)- γ -Bisabolene	0.23	Sesquiterpene
β -Sesquiphellandrene	11.73	Sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
δ -Cadinene	0.44	Sesquiterpene
α -Elemol	0.38	Sesquiterpenic alcohol
Germacrene B	0.47	Sesquiterpene
<i>cis</i> -Sesquisabinene hydrate	0.13	Sesquiterpenic alcohol
Unknown	0.03	Oxygenated sesquiterpene
(<i>E</i>)-Nerolidol	0.42	Sesquiterpenic alcohol
1'-Hydroxyeugenol	0.03	Phenylpropanoid
ar-Turmerol	0.06	Sesquiterpenic alcohol
Unknown	0.05	Oxygenated sesquiterpene
<i>trans</i> -Sesquisabinene hydrate	0.27	Sesquiterpenic alcohol
Unknown	0.05	Oxygenated sesquiterpene
<i>cis</i> -Zingiberenol	0.36	Sesquiterpenic alcohol
10-epi- γ -Eudesmol	0.10	Sesquiterpenic alcohol
γ -Eudesmol	0.06	Sesquiterpenic alcohol
<i>trans</i> -Zingiberenol	0.21	Sesquiterpenic alcohol
β -Eudesmol	0.23	Sesquiterpenic alcohol
Zingerone	0.01	Phenylbutanoid
α -Eudesmol	0.10	Sesquiterpenic alcohol
(<i>3E,5E</i>)-7-Hydroxyfarnesene	0.01	Sesquiterpenic alcohol
β -Bisabolol	0.11	Sesquiterpenic alcohol
(<i>Z</i>)- α -Santalol	0.01	Sesquiterpenic alcohol
epi- α -Bisabolol	0.04	Sesquiterpenic alcohol

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4-(1,5-Dimethylhex-4-enyl)cyclohex-2-enone	0.09	Norsesquiterpenic ketone
Unknown	0.01	Oxygenated sesquiterpene
Unknown	0.25	Oxygenated sesquiterpene
Unknown	0.20	Oxygenated sesquiterpene
(Z)-epi-β-Santalol	0.03	Sesquiterpenic alcohol
α-Curcumene-15-al	0.05	Sesquiterpenic aldehyde
Unknown	0.06	Oxygenated sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.04	Oxygenated sesquiterpene
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.01	Oxygenated sesquiterpene
Unknown	0.04	Oxygenated sesquiterpene
Unknown	0.03	Oxygenated sesquiterpene
Unknown	0.09	Oxygenated sesquiterpene
Unknown	0.04	Oxygenated sesquiterpene
Unknown	0.01	Oxygenated sesquiterpene
Unknown	0.04	Oxygenated sesquiterpene
Geranyl-para-cymene	0.08	Diterpene
Palmitic acid	0.02	Aliphatic acid
Unknown	0.05	Unknown
Oleic acid	0.01	Aliphatic acid
Consolidated total	97.54%	

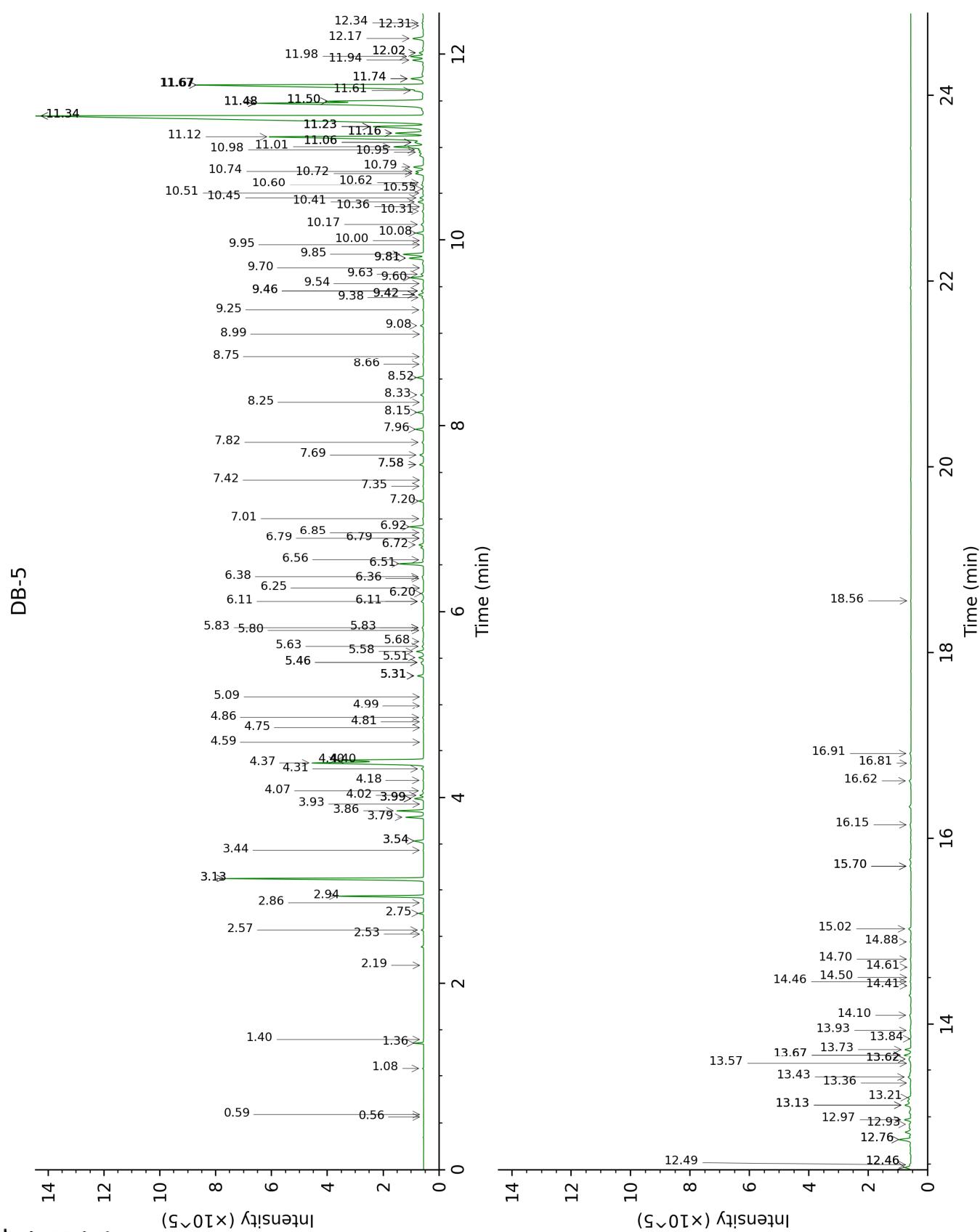
tr: The compound has been detected below 0.005% of total signal.

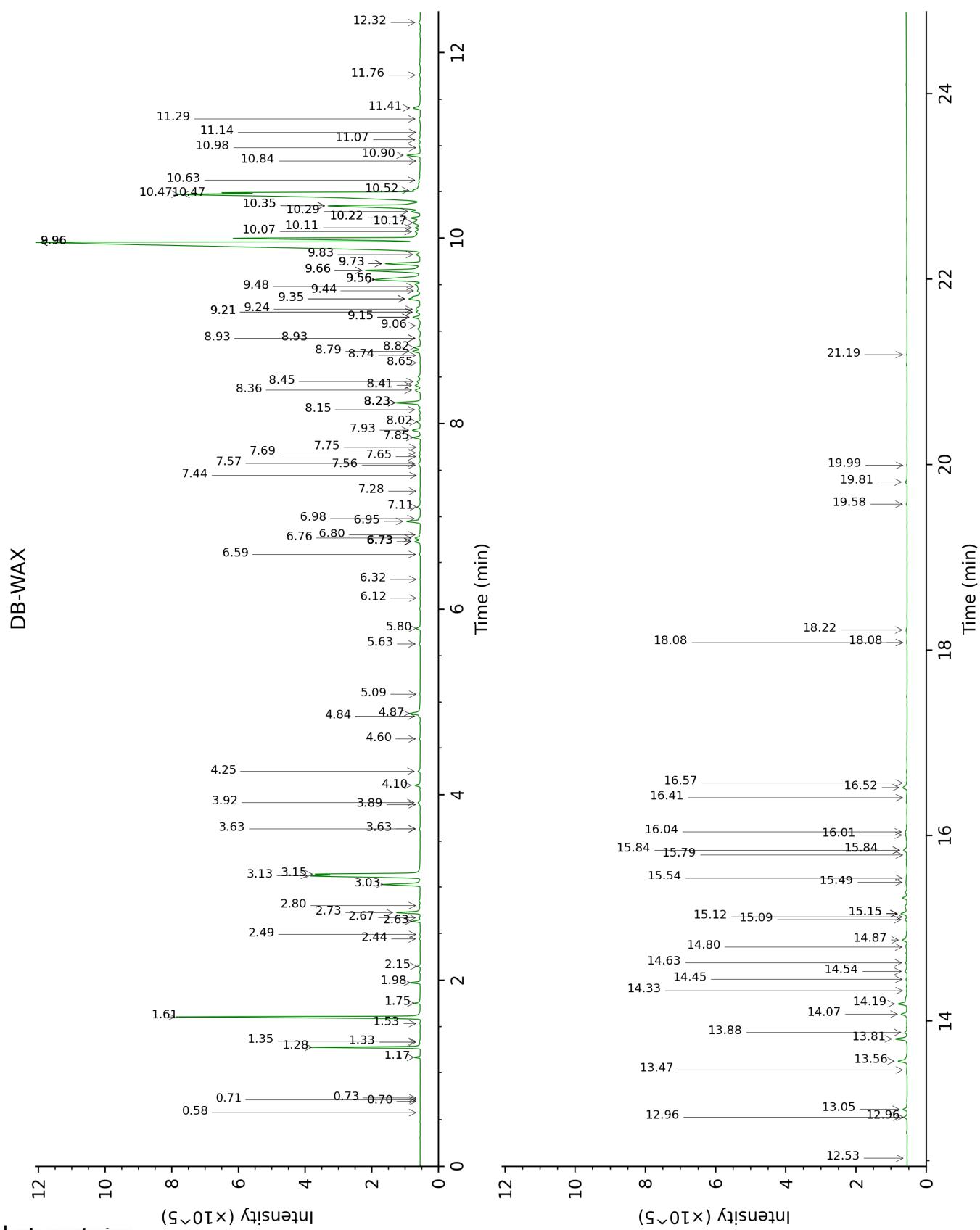
Note: no correction factor was applied

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	%
Isovaleral	0.56	641	tr	0.71	888	tr
2-Methylbutyral	0.59	651	tr	0.70	881	tr
Toluene	1.08	757	0.02	1.35	1003	0.02
Hexanal	1.36	800	0.19	1.76	1044	0.18
2-Methyl-2-heptene	1.40	805	tr	0.58	836	tr
Hexanol	2.19	874	tr			
Nonane	2.53	903	0.01	0.73	895	tr
2-Heptanol	2.57	906	0.06	4.84	1300	0.04
Tricyclene	2.75	918	0.12	1.16	973	0.12
α -Thujene	2.86	926	0.01	1.34	1002	0.01
α -Pinene	2.94	930	2.28	1.28	993	2.29
α -Fenchene	3.13*	944	6.04	1.54	1022	0.01
Camphene	3.13*	944	[6.04]	1.61	1029	6.12
Unknown [m/z 91, 119 (60), 77 (36), 92 (31), 93 (31)... 134 (23)]	3.44	964	0.01	2.49	1116	0.01
β -Pinene	3.54*	971	0.32	1.98	1067	0.26
Sabinene	3.54*	971	[0.32]	2.15	1085	0.07
6-Methyl-5-hepten-2-one	3.79	988	0.52	4.87	1303	0.53
Myrcene	3.86	993	0.75	2.73	1135	0.71
6-Methyl-5-hepten-2-ol	3.93	998	0.01	6.73*	1432	0.19
Pseudolimonene	3.99*	1002	0.28	2.67	1130	0.03
Unknown [m/z 79, 108 (79), 52 (43), 80 (42), 77 (27)]	3.99*	1002	[0.28]	7.44	1486	0.01
α -Phellandrene	3.99*	1002	[0.28]	2.63	1127	0.22
Octanal	4.02	1004	0.12	4.25	1255	0.09
Δ 3-Carene	4.07	1007	0.04	2.44	1112	0.03
α -Terpinene	4.18	1014	0.02	2.80	1141	0.03
para-Cymene	4.31	1022	0.08	3.92	1230	0.08
Limonene	4.37†	1026	7.71	3.03	1159	1.20
1,8-Cineole	4.40*†	1028	[7.71]	3.13	1168	3.97
β -Phellandrene	4.40*†	1028	[7.71]	3.15	1169	2.55
(Z)- β -Ocimene	4.59	1040	tr	3.63*	1208	0.04
(E)- β -Ocimene	4.75	1050	tr			
2,6-Dimethyl-5-heptenal (melonal)	4.81	1054	0.01	5.09	1311	0.03
γ -Terpinene	4.86	1057	0.03	3.63*	1208	[0.04]
cis-Sabinene hydrate	4.99	1065	0.01	6.73*	1432	[0.19]
cis-Linalool oxide (fur.)	5.09	1071	0.01	6.32	1401	0.01
Terpinolene	5.31*	1085	0.20	4.10	1244	0.18
trans-Linalool oxide (fur.)	5.31*	1085	[0.20]	6.73*	1432	[0.19]
para-Cymenene	5.31*	1085	[0.20]	6.12	1387	0.01
2-Nonanone	5.46*	1094	0.14	5.63	1351	0.05
Unknown [m/z 96, 109 (55), 79 (41), 67 (38), 41 (36)... 150 (3)]	5.46*	1094	[0.14]	8.45	1564	0.14
Rosefuran	5.51	1098	0.15	5.80	1363	0.14
Linalool	5.58	1102	0.24	7.85	1517	0.22

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2-Nonanol	5.63	1105	0.05	7.56	1494	0.03
endo-Fenchol	5.68	1109	0.04	8.15	1541	0.13
Bornyl methyl ether	5.80	1116	0.02	3.89	1228	0.02
<i>trans</i> -Pinene hydrate	5.83*	1118	0.05	7.69	1504	0.03
(<i>E</i>)-4,8-Dimethylnona-1,3,7-triene	5.83*	1118	[0.05]	4.60	1282	0.04
<i>trans</i> -para-Menth-2-en-1-ol	6.11*	1136	0.10	8.74	1587	0.02
Camphor	6.11*	1136	[0.10]	6.98	1451	0.07
Camphene hydrate	6.20	1142	0.08	8.23*	1546	0.88
exo-Isocitral	6.25	1146	0.01	7.28	1473	0.01
Isoborneol	6.36	1152	0.02	9.15*	1620	0.31
Citronellal	6.38	1153	0.06	6.80	1437	0.04
Borneol	6.52	1162	0.83	9.56*	1653	2.49
Isoneral	6.56	1165	0.04	7.65	1501	0.03
Terpinen-4-ol	6.72	1175	0.16	8.36	1557	0.22
Cryptone	6.79*	1180	0.03	8.93*	1602	0.07
4-Methylacetophenone	6.79*	1180	[0.03]	10.22*	1707	0.35
para-Cymen-8-ol	6.85	1184	0.03	11.29	1799	0.07
α -Terpineol	6.92	1188	0.49	9.56*	1653	[2.49]
Myrtenol	7.01	1194	0.04	10.63	1743	0.08
Decanal	7.20	1206	0.15	7.11	1460	0.13
<i>trans</i> -Carveol	7.35	1217	0.03	11.14	1787	0.02
Bornyl formate	7.42	1221	0.01	7.75	1509	0.01
Nerol	7.58*	1232	0.14	10.84	1760	0.01
Citronellol	7.58*	1232	[0.14]	10.52†	1733	[18.93]
Neral	7.69	1239	0.13	9.24	1627	0.26
Unknown [m/z 109, 119 (84), 91 (81), 134 (55)... 137 (27) ...]	7.82	1248	0.05	11.07	1780	0.06
Geraniol	7.96	1258	0.27	11.41	1809	0.32
Geranial	8.15	1270	0.21	9.96*†	1686	36.71
Citronellyl formate	8.25	1277	0.02	8.66	1580	0.01
Bornyl acetate	8.33	1283	0.10	8.02	1530	0.12
2-Undecanone	8.52	1295	0.22	8.41	1561	0.21
2-Undecanol	8.66	1305	0.04	10.07	1695	0.23
Carvacrol	8.75	1311	0.02	15.12	2159	0.01
3-Oxo-para-menth-1-en-7-al	8.99	1328	0.01	12.53	1910	0.01
δ -Elemene	9.08	1334	0.11	6.76	1435	0.18
α -Cubebene	9.25	1346	0.03	6.59	1422	0.03
Citronellyl acetate	9.38	1356	0.06	9.21*	1624	0.15
Cyclosativene I	9.42*	1358	0.19	6.73*	1432	[0.19]
8-Hydroxy-iso-menthol	9.42*	1358	[0.19]	14.80	2127	0.04
Unknown [m/z 95, 110 (87), 43 (58), 139 (52) ...]	9.46*	1361	0.07			
Cyclosativene II	9.46*	1361	[0.07]	6.73*	1432	[0.19]
Neryl acetate	9.54	1366	0.02	9.96*†	1686	[36.71]
α -Copaene	9.60	1371	0.45	6.95	1449	0.46
Unknown [m/z 81, 59 (94), 41 (74), 85 (40), 43 (55) ...]	9.64	1374	0.08	13.05	1958	0.15
Unknown [m/z 139, 69 (63), 83 (53), 43 (49), 41 (39) ...]	9.70	1378	tr	15.84*	2233	0.17

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Geranyl acetate	9.81*	1386	0.49	10.29	1713	0.33
β-Cubebene	9.81*	1386	[0.49]	7.57	1496	0.07
β-Elemene	9.85	1389	0.72	8.23*	1546	[0.88]
Vanillin	9.95	1396	tr	18.08*	2476	0.03
γ-4-Dimethylbenzenebutyral	10.00	1399	0.01			
Sesquithujene	10.08	1405	0.26	7.93	1523	0.30
β-Caryophyllene	10.17	1412	0.10	8.23*	1546	[0.88]
β-Copaene	10.31	1422	0.05	8.23*	1546	[0.88]
Unknown [m/z 43, 83 (81), 126 (64), 41 (53), 55 (43)...]	10.36	1426	0.01			
γ-Elemene	10.41	1430	0.20	8.82	1593	0.20
<i>trans</i> -α-Bergamotene	10.45	1433	0.13	8.23*	1546	[0.88]
Unknown [m/z 41, 97 (78), 69 (77), 43 (71), 125 (67), 55 (56)... 168 (39)]	10.50	1437	0.05			
Sesquisabinene A	10.55	1440	0.05	8.93*	1602	[0.07]
Unknown [m/z 139, 69 (60), 41 (51), 43 (47), 119 (41)... 204 (1)]	10.60	1444	0.09			
α-Humulene	10.62	1446	0.05	9.06	1612	0.04
allo-Aromadendrene	10.72	1453	0.29	8.79	1590	0.27
Sesquisabinene B	10.74	1455	0.28	9.15*	1620	[0.31]
(E)-β-Farnesene	10.79	1458	0.37	9.35*	1636	0.42
Selina-4,11-diene	10.95	1470	0.17	9.21*	1624	[0.15]
γ-Muurolene	10.98	1472	0.18	9.35*	1636	[0.42]
Germacrene D	11.01	1474	1.20	9.56*	1653	[2.49]
γ-Curcumene	11.06*	1478	0.40	9.48	1647	0.12
β-Selinene	11.06*	1478	[0.40]	9.66*	1661	2.31
αr-Curcumene	11.12	1482	7.07	10.47*†	1729	18.93
Unknown [m/z 161, 91 (100), 105 (93), 79 (89), 93 (89), 107 (79)... 204 (34)]	11.16*	1485	1.09	9.73*	1667	1.24
δ-Selinene	11.16*	1485	[1.09]	9.44	1643	0.14
epi-Cubebol	11.23*	1490	2.22	11.76	1841	0.05
α-Selinene	11.23*	1490	[2.22]	9.73*	1667	[1.24]
Bicyclosesquiphellandrene?	11.23*	1490	[2.22]	9.66*	1661	[2.31]
α-Muurolene	11.34*	1499	30.37	9.83	1675	0.17
α-Zingiberene	11.34*	1499	[30.37]	9.96*†	1686	[36.71]
γ-Cadinene	11.48*†	1510	10.99	10.11	1699	0.19
Cubebol	11.48*†	1510	[10.99]	12.32	1892	0.07
β-Bisabolene	11.48*†	1510	[10.99]	9.96*†	1686	[36.71]
(3E,6E)-α-Farnesene	11.50*†	1511	[10.99]	10.35*	1719	4.35
7-epi-α-Selinene	11.50*†	1511	[10.99]	10.22*	1707	[0.35]
<i>trans</i> -Calamenene	11.61†	1520	12.43	10.98	1773	0.01
(E)-γ-Bisabolene	11.67*†	1525	[12.43]	10.35*	1719	[4.35]
β-Sesquiphellandrene	11.67*†	1525	[12.43]	10.47*†	1729	[18.93]
Unknown [m/z 177, 159 (67), 41 (43), 91 (43), 43 (41)... 220 (t)]	11.74*†	1530	[12.43]	12.96*	1950	0.14
δ-Cadinene	11.74*†	1530	[12.43]	10.17	1703	0.44
α-Elemol	11.94	1546	0.38	13.81	2030	0.48

Germacrene B	11.98	1549	0.47	10.90	1766	0.44
cis-Sesquisabinene hydrate	12.02*	1552	0.16	12.96*	1950	[0.14]
Unknown [m/z 98, 97 (95), 126 (91), 95 (69), 41 (67), 55 (55), 123 (53)... 220 (3)]	12.02*	1552	[0.16]	14.33	2080	0.03
(E)-Nerolidol	12.17	1564	0.42	13.56	2006	0.43
1'-Hydroxyeugenol	12.31	1575	0.03	19.58	2650	0.03
ar-Turmerol	12.34	1577	0.06	15.16*	2163	0.27
Unknown [m/z 159, 43 (69), 202 (61), 91 (49), 41 (46), 79 (37)... 220 (t)]	12.46*	1587	0.25	14.45	2092	0.05
trans-Sesquisabinene hydrate	12.46*	1587	[0.25]	14.08	2056	0.27
Unknown [m/z 132, 118 (89), 145 (85), 119 (79), 117 (60)...]	12.49	1590	0.05	13.47	1997	0.02
cis-Zingiberenol	12.76*	1611	0.47	14.19	2067	0.36
10-epi-γ-Eudesmol	12.76*	1611	[0.47]	13.88	2037	0.10
γ-Eudesmol	12.92	1624	0.06	14.63	2110	0.06
trans-Zingiberenol	12.97	1628	0.21	14.87	2134	0.25
β-Eudesmol	13.13*	1641	0.25	15.16*	2163	[0.27]
Zingerone	13.13*	1641	[0.25]	19.99	2700	0.01
α-Eudesmol	13.21	1648	0.10	15.09	2156	0.08
(3E,5E)-7-Hydroxyfarnesene	13.36	1661	0.01	16.01	2250	0.07
β-Bisabolol	13.43	1666	0.11	14.54	2101	0.11
(Z)-α-Santalol	13.57	1678	0.01	16.41	2292	0.02
epi-α-Bisabolol	13.62*	1682	0.13	15.16*	2163	[0.27]
4-(1,5-Dimethylhex-4-enyl)cyclohex-2-enone	13.62*	1682	[0.13]	15.49	2197	0.09
Unknown [m/z 137, 119 (70), 84 (69), 41 (68), 69 (53), 55 (45), 109 (38)... 222 (2)]	13.67*	1686	0.26	15.79	2228	0.01
Unknown [m/z 69, 107 (80), 41 (79), 79 (54), 93 (44), 91 (43)... 220 (6)]	13.67*	1686	[0.26]			
Unknown [m/z 69, 41 (59), 118 (33), 43 (32), 55 (31)... 234? (t)]	13.73	1691	0.20	16.52	2304	0.22
(Z)-epi-β-Santalol	13.84	1701	0.03			
ar-Curcumen-15-al	13.93	1708	0.05	16.04	2254	0.07
Unknown [m/z 119, 91 (31), 105 (29), 41 (25), 133 (23), 158 (21)...]	14.10	1722	0.06	16.57	2309	0.03
Unknown [m/z 82, 43 (85), 91 (67), 93 (66), 41 (66), 69 (59), 106 (47)... 218 (5)...]	14.41	1750	0.02			
Unknown [m/z 105, 148 (87), 91 (83), 135 (78), 131 (76)... 218 (21)...]	14.46	1754	0.04			
Unknown [m/z 43, 82 (100), 41 (86), 69 (76), 93 (72), 91 (72)... 218 (4)...]	14.50	1758	0.02			

Unknown [m/z 79, 41 (77), 135 (75), 69 (74), 43 (70)... 220 (9)]	14.61	1767	0.01	18.22	2491	0.05
Unknown [m/z 151, 41 (78), 95 (71), 109 (59), 55 (56), 69 (55)... 234 (15)]	14.70	1775	0.04			
Unknown [m/z 69, 41 (96), 43 (90), 109 (51), 55 (42), 81 (33)...]	14.88	1791	0.03	18.08*	2476	[0.03]
Unknown [m/z 69, 43 (95), 41 (84), 109 (78), 95 (54), 93 (49)... 177 (36), 220 (2)...]	15.02	1803	0.09	19.81	2678	0.06
Unknown [m/z 43, 109 (77), 69 (65), 41 (60), 55 (51), 95 (44), 135 (43)... 207 (19)...]	15.70*	1865	0.05			
Unknown [m/z 109, 69 (58), 43 (56), 41 (42), 135 (37), 55 (27)... 220 (5)]	15.70*	1865	[0.05]	21.19	2850	0.01
Unknown [m/z 125, 41 (86), 151 (78), 109 (67), 69 (63)... 236 (22)]	16.15	1905	0.04			
Geranyl-para-cymene	16.62	1950	0.08	15.84*	2233	[0.17]
Palmitic acid	16.81	1968	0.02			
Unknown [m/z 119, 69 (93), 132 (53), 105 (40), 41 (34), 93 (32)...]	16.91	1978	0.05	15.54	2202	0.04
Oleic acid	18.56	2142	0.01			
Total identified		96.49%			96.39%	
Total reported		97.45%			97.28%	

*: 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