

Date : March 16, 2021

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 21B23-FEP10

Customer identification : Geranium - Egypt - 51293-19

Type : Essential oil

Source : *Pelargonium graveolens* ct. Egyptian

Customer : Fern & Petal

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 : March 15, 2021

Checked and approved by :

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

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PHYSICOCHEMICAL DATA

Physical aspect: Faintly yellow liquid

Refractive index: 1.4679 ± 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-buten-2-ol	tr	Aliphatic alcohol
Isovaleral	tr	Aliphatic aldehyde
2-Methylbutyral	tr	Aliphatic aldehyde
Isoamyl alcohol	0.01	Aliphatic alcohol
Prenal	tr	Aliphatic aldehyde
Hexanal	tr	Aliphatic aldehyde
Dimethyl sulfoxide	0.01	Aliphatic sulfoxide
3-Methylpentanol	0.03	Aliphatic alcohol
(3Z)-Hexenol	0.02	Aliphatic alcohol
Hexanol	tr	Aliphatic alcohol
3-Acetyl-3-methylcyclopentene	tr	Aliphatic ketone
3-Methylpentyl formate?	0.01	Aliphatic ester
α-Thujene	0.01	Monoterpene
α-Pinene	0.36	Monoterpene
Benzaldehyde	0.02	Simple phenolic
Geranic oxide	0.06	Monoterpenic ether
Sabinene	0.01	Monoterpene
β-Pinene	0.01	Monoterpene
6-Methyl-5-hepten-2-one	0.06	Aliphatic ketone
trans-Dehydroxylinalool oxide	0.04	Monoterpenic ether
Myrcene	0.05	Monoterpene
6-Methyl-5-hepten-2-ol	0.02	Aliphatic alcohol
α-Phellandrene	0.06	Monoterpene
cis-Dehydroxylinalool oxide	0.04	Monoterpenic ether
Δ3-Carene	0.03	Monoterpene
α-Terpinene	0.01	Monoterpene
para-Cymene	0.07	Monoterpene
Unknown	0.02	Unknown
Unknown	0.03	Unknown
Limonene	0.13	Monoterpene
β-Phellandrene	0.05	Monoterpene
1,8-Cineole	0.01	Monoterpenic ether
Benzeneacetaldehyde	0.02	Simple phenolic
(Z)-β-Ocimene	0.07	Monoterpene
(E)-β-Ocimene	0.08	Monoterpene
Unknown	0.01	Unknown
2,6-Dimethyl-5-heptenal (melonal)	0.02	Aliphatic aldehyde
γ-Terpinene	0.02	Monoterpene
cis-Sabinene hydrate	0.01	Monoterpenic alcohol
Unknown	0.02	Oxygenated monoterpene
cis-Linalool oxide (fur.)	0.16	Monoterpenic alcohol
Octanol	0.02	Aliphatic alcohol
Fenchone	0.01	Monoterpenic ketone
Terpinolene	0.04	Monoterpene
para-Cymenene	0.03	Monoterpene

<i>trans</i> -Linalool oxide (fur.)	0.05	Monoterpenic alcohol
<i>trans</i> -Sabinene hydrate	0.01	Monoterpenic alcohol
Linalool	6.87	Monoterpenic alcohol
<i>cis</i> -Rose oxide	1.07	Monoterpenic ether
Phenylethyl alcohol	0.08	Simple phenolic
<i>trans</i> -Rose oxide	0.44	Monoterpenic ether
Unknown	0.29	Oxygenated normonoterpane
Isopulegol	0.07	Monoterpenic alcohol
Menthone	0.72	Monoterpenic ketone
Unknown	0.05	Unknown
Citronellal	0.25	Monoterpenic aldehyde
Borneol	0.04	Monoterpenic alcohol
iso-Isopulegol	0.05	Monoterpenic alcohol
Isomenthone	4.90	Monoterpenic ketone
neo-Menthol	0.08	Monoterpenic alcohol
Terpinen-4-ol	0.03	Monoterpenic alcohol
Menthol	0.02	Monoterpenic alcohol
Isomenthol	0.14	Monoterpenic alcohol
para-Cymen-8-ol	0.04	Monoterpenic alcohol
α -Terpineol	0.52	Monoterpenic alcohol
Unknown	0.03	Unknown
Unknown	0.03	Oxygenated monoterpane
β -Cyclocitral	0.02	Monoterpenic aldehyde
Nerol	0.33	Monoterpenic alcohol
Citronellol	30.19	Monoterpenic alcohol
Neral	0.69	Monoterpenic aldehyde
Piperitone	0.05	Monoterpenic ketone
Geraniol	16.02	Monoterpenic alcohol
Geranal	0.60	Monoterpenic aldehyde
Citronellyl formate	5.86	Monoterpenic ester
Neryl formate	0.16	Monoterpenic ester
Geranyl formate	3.66	Monoterpenic ester
(3Z)-Hexenyl tiglate	0.02	Aliphatic ester
Citronellic acid	0.10	Monoterpenic acid
α -Cubebene	0.18	Sesquiterpene
Phenylethyl propionate	0.03	Phenolic ester
Citronellyl acetate	0.06	Monoterpenic ester
Geranic acid	0.13	Aliphatic acid
Neryl acetate	0.06	Monoterpenic ester
α -Copaene	0.42	Sesquiterpene
β -Bourbonene	0.82	Sesquiterpene
1,5-diepi- β -Bourbonene	0.05	Sesquiterpene
Geranyl acetate	0.40	Monoterpenic ester
β -Elemene	0.08	Sesquiterpene
Phenylethyl isobutyrate	0.05	Phenolic ester
Isocaryophyllene	0.03	Sesquiterpene
α -Gurjunene	0.06	Sesquiterpene
β -Caryophyllene	1.06	Sesquiterpene
Thymohydroquinone dimethyl ether	0.06	Monoterpenic ether
β -Copaene	0.14	Sesquiterpene
Heptyl tiglate	0.02	Aliphatic ester
6,9-Guaiadiene	0.06	Sesquiterpene

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Isogermacrene D	0.25	Sesquiterpene
Unknown	0.29	Sesquiterpene
Citronellyl propionate	0.29	Monoterpenic ester
α -Humulene	0.26	Sesquiterpene
allo-Aromadendrene	0.16	Sesquiterpene
<i>trans</i> -Cadina-1(6),4-diene	0.20	Sesquiterpene
γ -Murolene	0.27	Sesquiterpene
α -Amorphene	0.16	Sesquiterpene
Germacrene D	0.95	Sesquiterpene
Geranyl propionate	0.51	Monoterpenic ester
β -Selinene	0.18	Sesquiterpene
Phenylethyl isovalerate	0.03	Phenolic ester
γ -Amorphene	0.13	Sesquiterpene
α -Selinene	0.15	Sesquiterpene
Bicyclogermacrene	0.24	Sesquiterpene
Viridiflorene	0.15	Sesquiterpene
α -Murolene	0.30	Sesquiterpene
γ -Cadinene	0.30	Sesquiterpene
7-epi- α -Selinene	0.09	Sesquiterpene
Geranyl isobutyrate	0.15	Monoterpenic ester
δ -Cadinene	0.71	Sesquiterpene
<i>trans</i> -Calamenene	0.07	Sesquiterpene
<i>trans</i> -Cadina-1,4-diene	0.15	Sesquiterpene
Citronellyl butyrate	0.68	Monoterpenic ester
Phenylethyl angelate?	0.11	Phenolic ester
α -Agarofuran	0.26	Sesquiterpenic ether
1-nor-Bourbonanone	0.03	Norsesquiterpenic ketone
Geranyl butyrate	1.31	Monoterpenic ester
Spathulenol	0.14	Sesquiterpenic alcohol
Caryophyllene oxide	0.15	Sesquiterpenic ether
Globulol	0.08	Sesquiterpenic alcohol
Phenylethyl tiglate	0.71	Phenolic ester
Viridiflorol	0.05	Sesquiterpenic alcohol
Geranyl 2-methylbutyrate?	0.07	Monoterpenic ester
Geranyl isovalerate	0.08	Monoterpenic ester
10-epi- γ -Eudesmol	3.86	Sesquiterpenic alcohol
1,10-diepi-Cubenol	0.12	Sesquiterpenic alcohol
Unknown	0.17	Oxygenated sesquiterpene
γ -Eudesmol	0.15	Sesquiterpenic alcohol
Citronellyl valerate?	0.06	Monoterpenic ester
Agarospirol?	0.11	Sesquiterpenic alcohol
Cubenol	0.15	Sesquiterpenic alcohol
τ -Cadinol	0.09	Sesquiterpenic alcohol
τ -Murolol	0.02	Sesquiterpenic alcohol
β -Eudesmol	0.23	Sesquiterpenic alcohol
α -Eudesmol	0.24	Sesquiterpenic alcohol
α -Cadinol	0.14	Sesquiterpenic alcohol
Geranyl valerate	0.13	Monoterpenic ester
Citronellyl tiglate	0.25	Monoterpenic ester
Citronellyl 4-methylvalerate	0.08	Monoterpenic ester
Geranyl tiglate	1.31	Monoterpenic ester
3 β ,4 β -Oxidoagarofuran?	0.05	Sesquiterpenic ether

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Geranyl 4-methylvalerate?	0.15	Monoterpenic ester
Citronellyl caproate	0.04	Monoterpenic ester
Geranyl caproate	0.08	Monoterpenic ester
Citronellyl heptanoate	0.06	Monoterpenic ester
Phytone	0.03	Terpenic ketone
Geranyl heptanoate	0.09	Monoterpenic ester
Citronellyl caprylate	0.03	Monoterpenic ester
Geranyl caprylate	0.04	Monoterpenic ester
Unknown	0.03	Unknown
Consolidated total	96.33%	

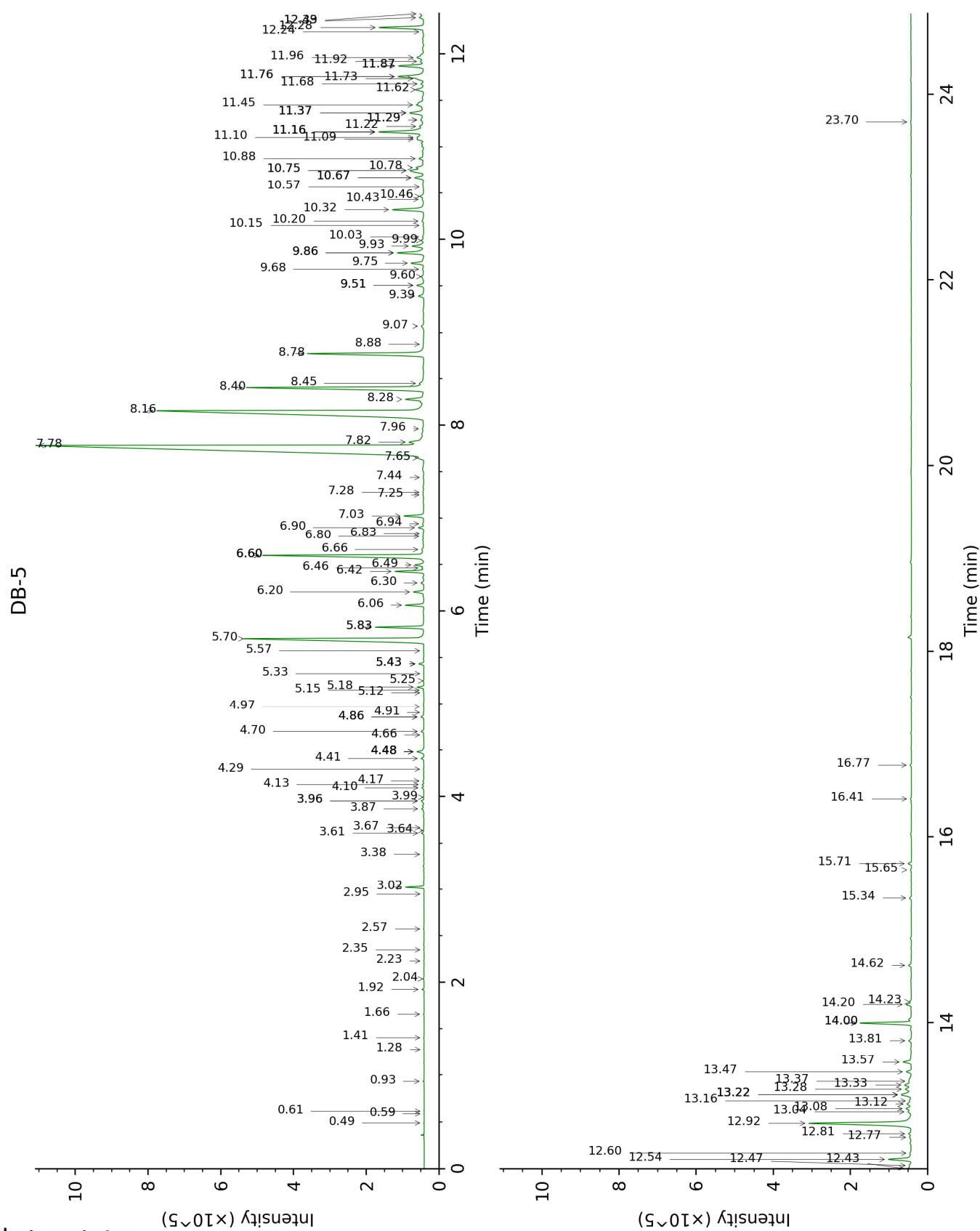
tr: The compound has been detected below 0.005% of total signal.

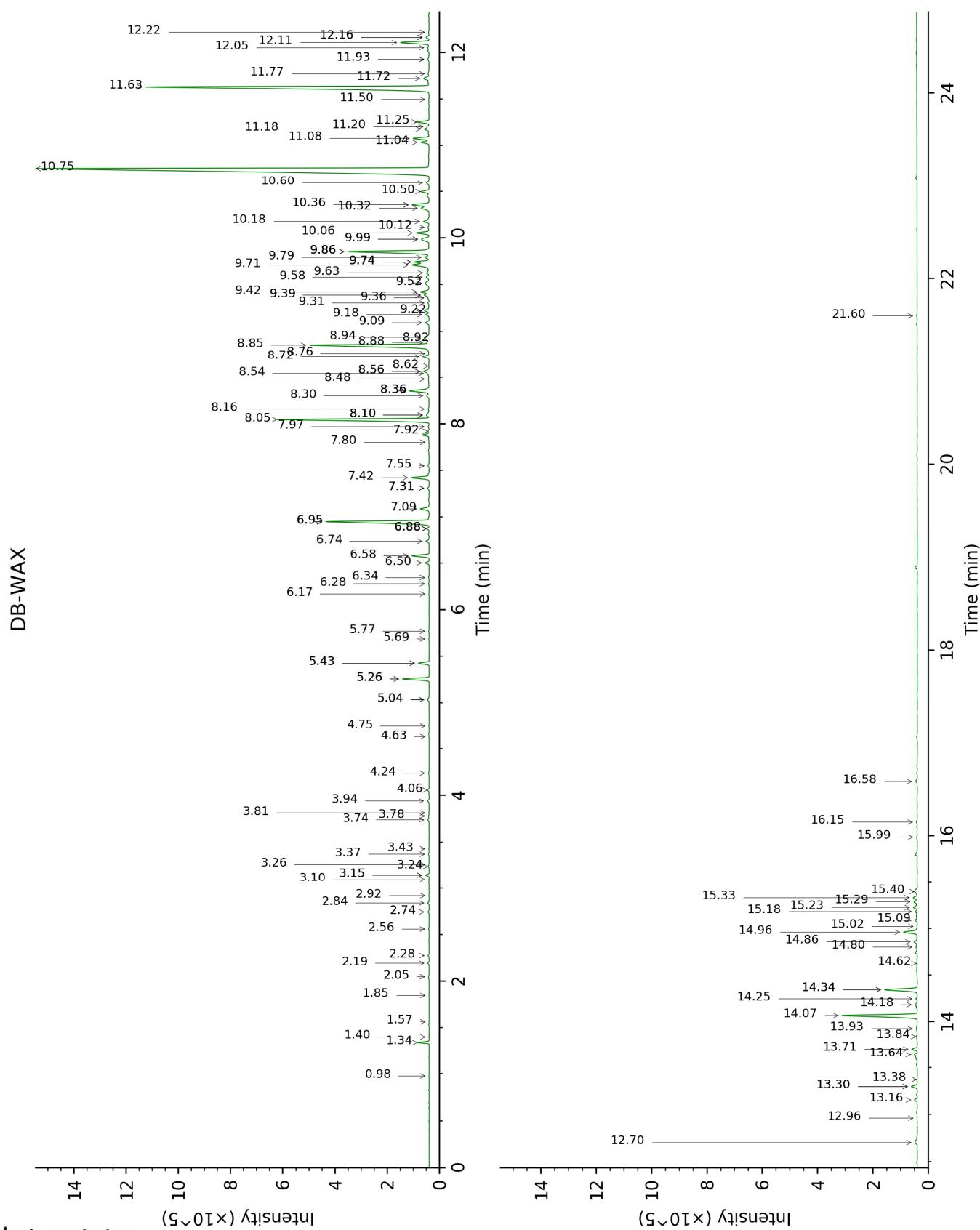
Note: no correction factor was applied

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-buten-2-ol	0.49	601	tr	1.57	1016	tr
Isovaleral	0.59	642	tr			
2-Methylbutyral	0.62	652	tr			
Isoamyl alcohol	0.93	731	0.01	3.43	1179	0.02
Prenal	1.28	780	tr	3.14*	1157	0.13
Hexanal	1.41	799	tr	1.85	1044	tr
Dimethyl sulfoxide	1.66	822	0.01	7.80	1500	0.02
3-Methylpentanol	1.92	844	0.03	5.04*	1296	0.10
(3Z)-Hexenol	2.04	854	0.02	5.77	1349	0.03
Hexanol	2.23	870	tr	5.43*	1324	0.45
3-Acetyl-3-methylcyclopentene	2.35	880	tr	0.98	931	0.01
3-Methylpentyl formate?	2.57	899	0.01	3.10	1153	0.02
α -Thujene	2.95	925	0.01	1.40	1000	tr
α -Pinene	3.02	930	0.36	1.34	991	0.35
Benzaldehyde	3.38	953	0.02	7.31*	1463	0.07
Geranic oxide	3.61	968	0.06	2.19	1078	0.05
Sabinene	3.64	970	0.01	2.28	1086	0.04
β -Pinene	3.67	972	0.01	2.05	1064	0.02
6-Methyl-5-hepten-2-one	3.87	986	0.06	5.04*	1296	[0.10]
<i>trans</i> -Dehydroxylinalool oxide	3.96*	992	0.09	3.37	1174	0.04
Myrcene	3.96*	992	[0.09]	2.84	1133	0.05
6-Methyl-5-hepten-2-ol	3.99	994	0.02	6.88*	1430	0.10
α -Phellandrene	4.10	1001	0.06	2.74	1126	0.05
<i>cis</i> -Dehydroxylinalool oxide	4.13	1003	0.04	3.78	1206	0.04
Δ 3-Carene	4.17	1006	0.03	2.56	1111	0.02
α -Terpinene	4.30	1014	0.01	2.92	1139	0.01
para-Cymene	4.41	1021	0.07	4.06	1226	0.07
Unknown [m/z 59, 43 (11), 109 (10), 41 (10), 127 (8)...]	4.48*†	1025	0.23	6.17	1378	0.02
Unknown [m/z 59, 43 (12), 109 (11), 41 (10), 127 (8)...]	4.48*†	1025	[0.23]	6.34	1391	0.03
Limonene	4.48*†	1025	[0.23]	3.14*	1157	[0.13]
β -Phellandrene	4.48*†	1025	[0.23]	3.24	1164	0.05
1,8-Cineole	4.48*†	1025	[0.23]	3.26	1166	0.01
Benzeneacetaldehyde	4.66	1037	0.02	8.76	1574	0.02
(Z)- β -Ocimene	4.70	1039	0.07	3.74	1203	0.07
(E)- β -Ocimene	4.86*	1049	0.09	3.94	1217	0.08

Unknown [m/z 125, 69 (75), 41 (34), 55 (25), 93 (22)... 140 (3)]	4.86*	1049	[0.09]	4.63	1267	0.01
2,6-Dimethyl-5-heptenal (melonal)	4.91	1052	0.02	5.26*	1312	1.12
γ -Terpinene	4.97	1056	0.02	3.81	1208	0.02
cis-Sabinene hydrate	5.12	1066	0.01	6.88*	1430	[0.10]
Unknown [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	5.15	1068	0.02	4.75	1275	0.03
cis-Linalool oxide (fur.)	5.18	1070	0.16	6.50	1402	0.16
Octanol	5.25	1074	0.02	8.16	1527	0.05
Fenchone	5.33	1079	0.01	5.69	1343	0.02
Terpinolene	5.43*	1085	0.12	4.24	1239	0.04
para-Cymenene	5.43*	1085	[0.12]	6.28	1386	0.03
trans-Linalool oxide (fur.)	5.43*	1085	[0.12]	6.88*	1430	[0.10]
trans-Sabinene hydrate	5.57	1094	0.01	7.92	1509	0.05
Linalool	5.70	1102	6.87	8.05	1519	6.79
cis-Rose oxide	5.83*	1110	1.15	5.26*	1312	[1.12]
Phenylethyl alcohol	5.83*	1110	[1.15]	12.05	1849	0.08
trans-Rose oxide	6.06	1126	0.44	5.43*	1324	[0.45]
Unknown [m/z 41, 69 (87), 82 (66), 67 (55), 109 (46)... 142 (18)]	6.20	1135	0.29	9.31	1617	0.06
Isopulegol	6.30	1141	0.07	8.10*	1522	0.20
Menthone	6.42	1149	0.72	6.58	1408	0.74
Unknown [m/z 43, 141 (51), 55 (36), 69 (31), 41 (29)... 156 (4)]	6.46	1151	0.05	8.48	1552	0.06
Citronellal	6.49	1153	0.25	6.95*	1436	5.15
Borneol	6.60*	1160	4.97	9.74*†	1653	[1.65]
iso-Isopulegol	6.60*	1160	[4.97]	7.97	1513	0.05
Isomenthone	6.60*	1160	[4.97]	6.95*	1436	[5.15]
neo-Menthol	6.66	1164	0.08	8.54	1557	0.08
Terpinen-4-ol	6.80	1173	0.03	8.56*	1559	0.30
Menthol	6.83	1175	0.02	9.09	1600	0.19
Isomenthol	6.90	1180	0.14	8.92	1586	0.16
para-Cymen-8-ol	6.94	1182	0.04	11.50	1800	0.02
α -Terpineol	7.03	1188	0.52	9.74*†	1653	[1.65]
Unknown [m/z 43, 99 (84), 81 (46), 986 (43), 126 (36), 71 (28)... 170 (12)]	7.25	1202	0.03			
Unknown [m/z 123, 81 (40), 67 (29), 79 (29), 93 (26), 121 (25), 41 (24), 55 (18), 69 (15)...]	7.28	1204	0.03			

β -Cyclocitral	7.44	1215	0.02	8.62	1563	0.01
Nerol	7.65†	1229	30.45	11.04	1761	0.33
Citronellol	7.78†	1238	[30.45]	10.75	1737	30.19
Neral	7.82	1241	0.69	9.42	1627	0.42
Piperitone	7.96	1251	0.05	9.86*	1662	3.86
Geraniol	8.16	1264	16.02	11.63	1812	15.87
Geranial	8.28	1272	0.60	10.06	1678	0.56
Citronellyl formate	8.40	1281	5.86	8.85	1581	6.02
Neryl formate	8.45	1284	0.16	9.39*	1624	0.23
Geranyl formate	8.78	1306	3.66	9.86*	1662	[3.86]
(3Z)-Hexenyl tiglate	8.88	1313	0.02	9.36	1622	0.06
Citronellic acid	9.07	1327	0.10			
α -Cubebene	9.39	1346	0.18	6.74	1420	0.16
Phenylethyl propionate	9.51*	1354	0.22	11.93*	1838	0.08
Citronellyl acetate	9.51*	1354	[0.22]	9.39*	1624	[0.23]
Geranic acid	9.60	1360	0.13	16.58	2287	0.10
Neryl acetate	9.68	1366	0.06	10.12	1683	0.07
α -Copaene	9.75	1370	0.42	7.09	1446	0.43
β -Bourbonene	9.86*	1378	0.89	7.42	1471	0.82
1,5-diepi- β -Bourbonene	9.86*	1378	[0.89]	7.31*	1463	[0.07]
Geranyl acetate	9.93	1383	0.40	10.50	1715	0.38
β -Elemene	9.99	1388	0.08	8.36*†	1543	[1.18]
Phenylethyl isobutyrate	10.03	1390	0.05	11.93*	1838	[0.08]
Isocaryophyllene	10.15	1399	0.03	8.10*	1522	[0.20]
α -Gurjunene	10.20	1402	0.06	7.55	1481	0.06
β -Caryophyllene	10.32	1411	1.06	8.36*†	1543	[1.18]
Thymohydroquinone dimethyl ether	10.43	1420	0.06	11.77	1824	0.07
β -Copaene	10.46	1422	0.14	8.30†	1538	1.18
Heptyl tiglate	10.57	1430	0.02			
6,9-Guaiadiene	10.67*	1437	0.31	8.56*	1559	[0.30]
Isogermacrene D	10.67*	1437	[0.31]	8.94	1588	0.25
Unknown [m/z 91, 161 (92), 105 (85), 119 (63), 133 (53), 79 (49), 204 (46)]	10.75*	1443	0.61	8.72	1571	0.29
Citronellyl propionate	10.75*	1443	[0.61]	10.18	1688	0.29
α -Humulene	10.78	1446	0.26	9.22	1611	0.23
allo-Aromadendrene	10.88	1453	0.16	8.88	1584	0.10
trans-Cadina-1(6),4-diene	11.08	1468	0.20	9.18	1607	0.16
γ -Muurolene	11.10	1470	0.27	9.52	1635	0.31
α -Amorphene	11.16*	1474	1.62	9.58	1640	0.16
Germacrene D	11.16*	1474	[1.62]	9.71†	1650	1.65
Geranyl propionate	11.16*	1474	[1.62]	11.25	1779	0.51
β -Selinene	11.22	1478	0.18	9.79	1657	0.21
Phenylethyl isovalerate	11.29*	1484	0.17	12.96	1934	0.03
γ -Amorphene	11.29*	1484	[0.17]	9.74*†	1653	[1.65]

α -Selinene	11.37*	1489	0.59	9.86*	1662	[3.86]
Bicyclogermacrene	11.37*	1489	[0.59]	9.99*	1673	0.54
Viridiflorene	11.37*	1489	[0.59]	9.63	1644	0.15
α -Muurolene	11.45	1496	0.30	9.99*	1673	[0.54]
γ -Cadinene	11.62	1508	0.30	10.32	1700	0.45
7-epi- α -Selinene	11.68	1513	0.09	10.36*	1703	0.80
Geranyl isobutyrate	11.73	1517	0.15	11.18	1773	0.22
δ -Cadinene	11.76*	1519	1.01	10.36*	1703	[0.80]
<i>trans</i> -Calamenene	11.76*	1519	[1.01]	11.20	1775	0.07
<i>trans</i> -Cadina-1,4-diene	11.87*	1528	0.79	10.60	1723	0.15
Citronellyl butyrate	11.87*	1528	[0.79]	11.08	1764	0.68
Phenylethyl angelate?	11.92	1532	0.11	14.18	2047	0.11
α -Agarofuran	11.96	1535	0.26	11.72	1820	0.31
1-nor-Bourbonanone	12.24	1556	0.03	13.38	1971	0.03
Geranyl butyrate	12.28	1560	1.31	12.11	1854	1.30
Spathulenol	12.39	1569	0.14	14.34*	2062	1.56
Caryophyllene oxide	12.43	1572	0.15	12.70	1910	0.18
Globulol	12.47	1575	0.08	13.84	2014	0.06
Phenylethyl tiglate	12.54	1580	0.71	14.96	2122	0.70
Viridiflorol	12.60	1585	0.05	13.93	2023	0.09
Geranyl 2-methylbutyrate?	12.77	1598	0.07	12.16*	1859	0.14
Geranyl isovalerate	12.81	1601	0.08	12.16*	1859	[0.14]
10-epi- γ -Eudesmol	12.92	1610	3.86	14.07	2036	3.66
1,10-diepi-Cubenol	13.04	1620	0.12	13.30*	1964	0.28
Unknown [m/z 147, 162 (79), 43 (64), 59 (64), 95 (47), 91 (44), 105 (43)... 238 (13)]	13.08	1623	0.17	15.18	2144	0.10
γ -Eudesmol	13.12	1627	0.15	14.86	2112	0.17
Citronellyl valerate?	13.16	1630	0.06	12.22	1864	0.03
Agarospiron?	13.22*	1636	0.43	15.09	2135	0.11
Cubenol	13.22*	1636	[0.43]	13.64	1996	0.15
τ -Cadinol	13.22*	1636	[0.43]	14.80	2106	0.09
τ -Muurolol	13.22*	1636	[0.43]	15.02	2128	0.02
β -Eudesmol	13.28	1640	0.23	15.33	2159	0.21
α -Eudesmol	13.33	1644	0.24	15.29	2155	0.18
α -Cadinol	13.37	1647	0.14	15.40	2166	0.23
Geranyl valerate	13.47	1656	0.13	13.16	1951	0.13
Citronellyl tiglate	13.57	1664	0.25	13.30*	1964	[0.28]
Citronellyl 4-methylvalerate	13.81	1684	0.08			
Geranyl tiglate	14.00*	1699	1.37	14.34*	2062	[1.56]
3 β ,4 β -Oxidoagarofuran?	14.00*	1699	[1.37]	15.99	2226	0.05
Geranyl 4-methylvalerate?	14.20	1716	0.15	13.70	2002	0.26
Citronellyl caproate	14.23	1719	0.04			
Geranyl caproate	14.62	1753	0.08	14.25	2053	0.08
Citronellyl heptanoate	15.34	1816	0.06			

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Phytone	15.65	1844	0.03	14.62	2089	0.04
Geranyl heptanoate	15.72	1850	0.09	15.23	2149	0.22
Citronellyl caprylate	16.41	1913	0.03			
Geranyl caprylate	16.77	1948	0.04	16.15	2242	0.06
Unknown [m/z 69, 83 (59), 81 (56), 137 (48), 41 (29), 139 (28)...]	23.70	2708	0.03	21.60	2875	0.04
Total identified		96.09%			95.44%	
Total reported		96.69%			96.07%	

*: 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