

Date : 2024-10-03

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 24119-PTH04

Customer Identification : Lavender - Bulgaria - L40121R

Type : Essential Oil

Source : *Lavandula angustifolia*

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 : 2024-09-24

PHYSICOCHEMICAL DATA

Refractive index : 1.46 ± 0.0003 (20 °C)

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

Analyst : Cindy Caron B. Sc.

Date : 2024-09-19

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	0.01	Aliphatic alcohol
Isovaleral	0.02	Aliphatic aldehyde
3-Methyl-2-butanone	tr	Aliphatic ketone
2-Methylbutyral	0.01	Aliphatic aldehyde
Isoamyl alcohol	0.01	Aliphatic alcohol
Toluene	tr	Simple phenolic
Hexanal	tr	Aliphatic aldehyde
Butyl acetate	0.03	Aliphatic ester
Methyl hexyl ether	0.14	Aliphatic ether
(3Z)-Hexenol	0.01	Aliphatic alcohol
Hexanol	0.10	Aliphatic alcohol
Tricyclene	0.01	Monoterpene
α -Thujene	0.08	Monoterpene
α -Pinene	0.13	Monoterpene
Unknown	0.01	Unknown
Camphene	0.09	Monoterpene
Thuja-2,4(10)-diene	0.01	Monoterpene
Butyl isobutyrate	0.02	Aliphatic ester
Sabinene	0.05	Monoterpene
β -Pinene	0.03	Monoterpene
Octen-3-ol	0.16	Aliphatic alcohol
Octan-3-one	1.62	Aliphatic ketone
Myrcene	0.53	Monoterpene
Butyl butyrate	0.13	Aliphatic ester
Octan-3-ol	0.33	Aliphatic alcohol
α -Phellandrene	0.04	Monoterpene
Pseudolimonene	0.01	Monoterpene
<i>cis</i> -Dehydroxylinalool oxide	0.01	Monoterpenic ether
Δ^3 -Carene	0.08	Monoterpene
(3Z)-Hexenyl acetate	0.01	Aliphatic ester
α -Terpinene	0.04	Monoterpene
Hexyl acetate	0.75	Aliphatic ester
<i>meta</i> -Cymene	0.03	Monoterpene
<i>para</i> -Cymene	0.10	Monoterpene
Limonene	0.34	Monoterpene
1,8-Cineole	0.84	Monoterpenic ether
Lavender lactone	0.01	Aliphatic lactone
(Z)- β -Ocimene	2.67	Monoterpene
(E)- β -Ocimene	2.38	Monoterpene

γ -Terpinene	0.13	Monoterpene
<i>cis</i> -Sabinene hydrate	0.06	Monoterpenic alcohol
<i>cis</i> -Linalool oxide (fur.)	0.11	Monoterpenic alcohol
Octanol	0.01	Aliphatic alcohol
α -Pinene oxide analog	0.04	Monoterpenic ether
Isoterpinolene	0.01	Monoterpene
Terpinolene	0.06	Monoterpene
<i>trans</i> -Linalool oxide (fur.)	0.10	Monoterpenic alcohol
Rosefuran	0.03	Monoterpenic ether
Linalool	32.75	Monoterpenic alcohol
(<i>Z</i>)-6-Methyl-3,5-heptadien-2-one	0.05	Aliphatic ketone
β -Thujone	0.05	Monoterpenic ketone
Octen-3-yl acetate	0.80	Aliphatic ester
Unknown	0.03	Unknown
Octan-3-yl acetate	0.18	Aliphatic ester
allo-Ocimene	0.07	Monoterpene
(<i>Z</i>)-Myroxide	0.02	Monoterpenic ether
Camphor	0.16	Monoterpenic ketone
(<i>E</i>)-Myroxide	0.03	Monoterpenic ether
Hexyl isobutyrate	0.08	Aliphatic ester
Nerol oxide	0.01	Aliphatic ether
Borneol	0.38	Monoterpenic alcohol
<i>cis</i> -Linalool oxide (pyr.)	0.02	Monoterpenic alcohol
Lavandulol	1.07	Monoterpenic alcohol
Terpinen-4-ol	2.95	Monoterpenic alcohol
(<i>3E,5Z</i>)-Undeca-1,3,5-triene	0.01	Alkene
Cryptone	0.22	Normoterpenic ketone
<i>meta</i> -Cymen-8-ol	0.04	Monoterpenic alcohol
<i>para</i> -Cymen-8-ol	0.04	Monoterpenic alcohol
Butyl hexanoate	0.01	Aliphatic ester
Myrtenal	0.01	Monoterpenic aldehyde
α -Terpineol	0.90	Monoterpenic alcohol
Hexyl butyrate	0.46	Aliphatic ester
Hodiendiol (2,6-dimethylocta-3,7-diene-2,6-diol)	0.07	Monoterpenic alcohol
Verbenone	0.02	Monoterpenic ketone
Unknown	0.02	Unknown
(<i>3E,5E</i>)-2,6-Dimethylocta-3,5,7-trien-2-ol	0.02	Monoterpenic alcohol
Octyl acetate	0.03	Aliphatic ester
<i>trans</i> -Carveol	0.02	Monoterpenic alcohol
Bornyl formate	0.04	Monoterpenic ester
Nerol	0.16	Monoterpenic alcohol
Hexyl 2-methylbutyrate	0.10	Aliphatic ester
Carvone	0.06	Monoterpenic ketone
Neral	0.02	Monoterpenic aldehyde

Hexyl isovalerate	0.03	Aliphatic ester
Linalyl acetate	31.42	Monoterpenic ester
Geraniol	0.38	Monoterpenic alcohol
Geranial	0.03	Monoterpenic aldehyde
2,6-Dimethyl-1,7-octadiene-3,6-diol	0.01	Monoterpenic alcohol
Bornyl acetate	0.06	Monoterpenic ester
Lavandulyl acetate	3.19	Monoterpenic ester
Thymol	0.02	Monoterpenic alcohol
Hexyl tiglate	0.06	Aliphatic ester
Hodiendiol derivative	0.03	Oxygenated monoterpene
α -Terpinyl acetate	0.01	Monoterpenic ester
Unknown	0.02	Oxygenated monoterpene
Unknown	0.02	Oxygenated monoterpene
Hodiendiol derivative III	0.02	Oxygenated monoterpene
Neryl acetate	0.25	Monoterpenic ester
α -Copaene	0.02	Sesquiterpene
Daucene	0.01	Sesquiterpene
β -Bourbonene	0.06	Sesquiterpene
Geranyl acetate	0.40	Monoterpenic ester
7-epi-Sesquithujene	tr	Sesquiterpene
Hexyl hexanoate	0.14	Aliphatic ester
β -Elemene	0.02	Sesquiterpene
α -Funebrene	0.01	Sesquiterpene
Isocaryophyllene	0.01	Sesquiterpene
Sesquithujene	0.05	Sesquiterpene
<i>cis</i> - α -Bergamotene	0.07	Sesquiterpene
β -Caryophyllene	3.79	Sesquiterpene
α -Santalene	0.39	Sesquiterpene
Coumarin	0.02	Coumarin
<i>trans</i> - α -Bergamotene	0.14	Sesquiterpene
Isogermacrene D	0.01	Sesquiterpene
Sesquisabinene A	0.06	Sesquiterpene
<i>cis</i> - β -Bergamotene?	0.02	Sesquiterpene
α -Humulene	0.12	Sesquiterpene
Lavandulyl butyrate?	0.12	Monoterpenic ester
(<i>E</i>)- β -Farnesene	4.53	Sesquiterpene
Dauca-5,8-diene?	0.02	Sesquiterpene
Germacrene D	0.73	Sesquiterpene
<i>trans</i> - β -Bergamotene	0.06	Sesquiterpene
Isodaucene	0.03	Sesquiterpene
Hodiendiol derivative II	0.02	Oxygenated monoterpene
γ -Cadinene	0.09	Sesquiterpene
β -Bisabolene	0.05	Sesquiterpene
Lavandulyl isovalerate	0.01	Monoterpenic ester
Unknown	0.03	Oxygenated sesquiterpene

δ-Cadinene	0.01	Sesquiterpene
β-Sesquiphellandrene	0.02	Sesquiterpene
Unknown	0.01	Oxygenated sesquiterpene
Isocaryophyllene epoxide B	0.02	Sesquiterpenic ether
cis-Sesquisabinene hydrate	0.01	Sesquiterpenic alcohol
(E)-Nerolidol	0.02	Sesquiterpenic alcohol
Dendrolasin	0.01	Sesquiterpenic ether
Caryophyllene oxide	0.21	Sesquiterpenic ether
Caryophyllene oxide isomer	0.03	Sesquiterpenic ether
Caryophylladienol II	0.02	Sesquiterpenic alcohol
τ-Cadinol	0.06	Sesquiterpenic alcohol
(3Z)-Caryophylla-3,8(13)-dien-5β-ol	0.02	Sesquiterpenic alcohol
Phytone	0.01	Terpenic ketone
Pentylcurcumene?	0.01	Diterpene
Consolidated total	99.30	

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

Note: no correction factor was applied

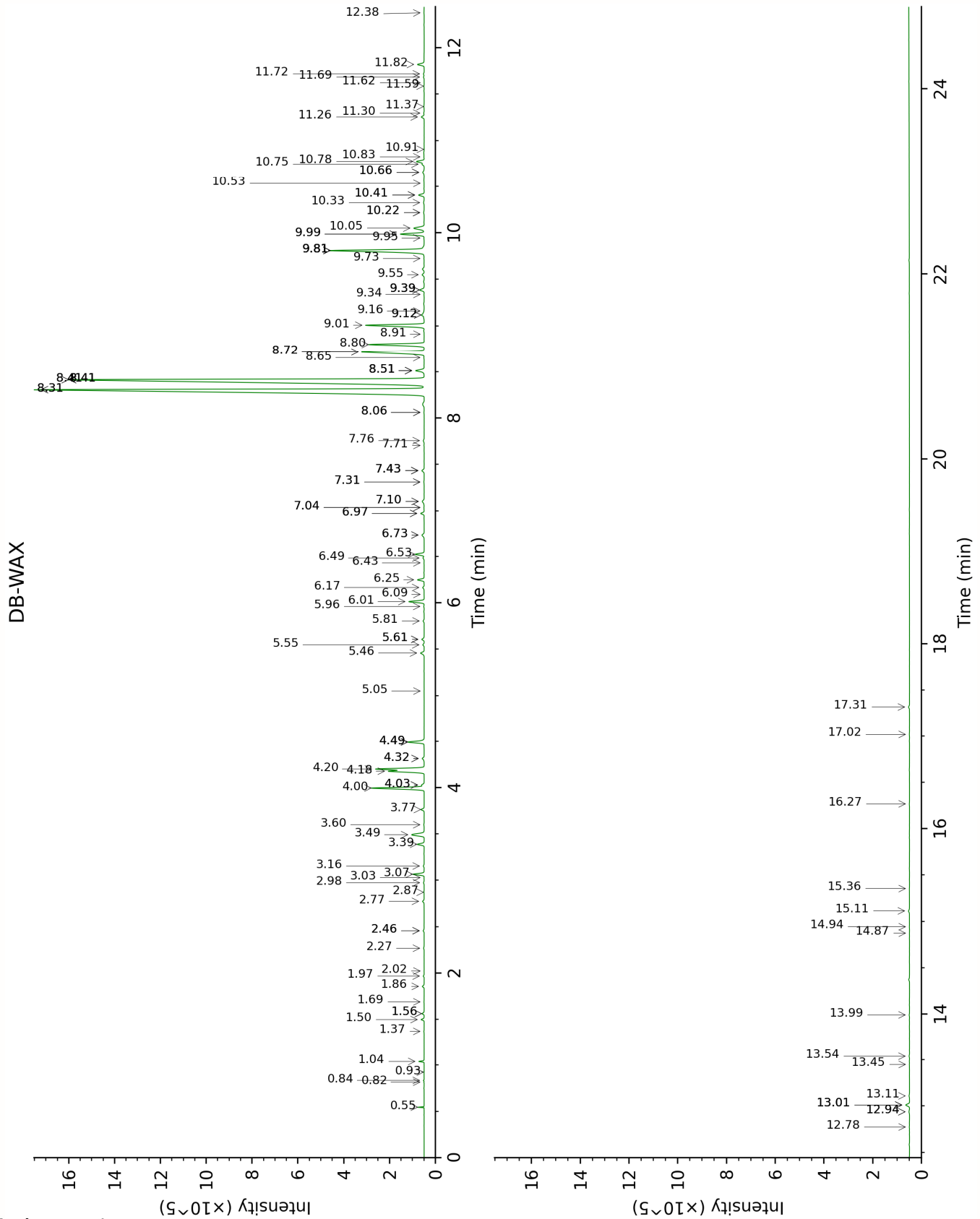
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm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

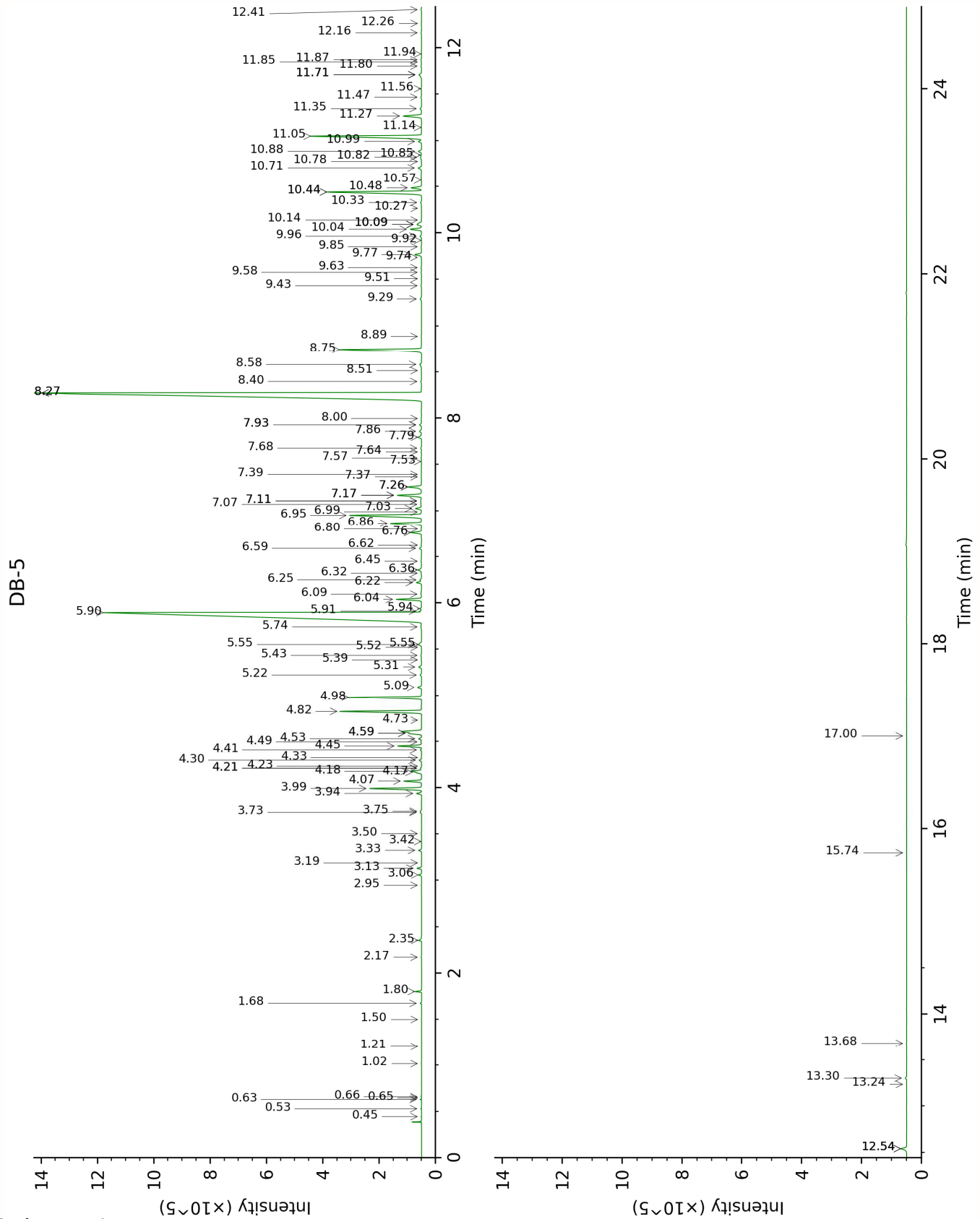
Unknowns: Unknown compounds' mass spectral data is presented in the "Full analysis data" table. The occurrence of unknown compounds is to be expected in many samples, and does not denote particular problems unless noted otherwise in the conclusion.

Bracketed value (xx): A bracketed percent value indicate that two or more compound percentage could not be solved due to coelution.

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Lavender - Bulgaria - L40121R





FULL ANALYSIS DATA

Isobutyral	Column DB-WAX			Column DB-5		
	0.55	773.1	0.10	0.44	536.6	tr
2-Methyl-3-buten-2-ol	1.69	1013.0	0.01	0.53	605.9	0.01
Isovaleral	0.84	884.8	0.02	0.63	640.8	0.02
3-Methyl-2-butanone	0.92	904.6	tr	0.65	646.0	tr
2-Methylbutyral	0.82	878.2	0.01	0.66	650.9	0.01
Isoamyl alcohol	3.60	1174.6	0.02	1.02	732.5	0.01
Toluene	1.56*	1000.9	[0.09]	1.21	759.0	tr
Hexanal	2.02	1044.7	tr	1.50	800.3	tr
Butyl acetate	1.97	1039.6	0.03	1.68	816.2	0.03
Methyl hexyl ether	1.04	922.6	0.15	1.80	826.7	0.14
(3Z)-Hexenol	5.96	1344.8	0.02	2.17	857.4	0.01
Hexanol	5.61*	1319.3	[0.13]	2.35	872.5	0.10
Tricyclene	1.37	973.9	0.01	2.95	918.1	0.01
α -Thujene	1.56*	1000.9	[0.09]	3.06	925.5	0.08
α -Pinene	1.50	993.5	0.12	3.13	930.2	0.13
Unknown LANO V [m/z 71, 67 (98), 113 (61), 43 (50), 55 (33)...]				3.19	934.0	0.01
Camphene	1.86	1028.9	0.08	3.32	943.0	0.09
Thuja-2,4(10)-diene	2.46*	1086.0	[0.05]	3.42	949.3	0.01
Butyl isobutyrate	2.87	1119.6	0.02	3.50	954.9	0.02
Sabinene	2.46*	1086.0	[0.05]	3.73	970.1	0.05
β -Pinene	2.27	1068.1	0.03	3.75	970.8	0.03
Octen-3-ol	6.97*	1417.9	[0.17]	3.94	983.6	0.16
Octan-3-one	4.18*†	1216.5	[1.72]	3.99	987.1	1.62
Myrcene	3.07	1134.4	0.53	4.07	992.4	0.53
Butyl butyrate	3.76	1187.0	0.15	4.17	998.7	0.13
Octan-3-ol	6.25	1365.4	0.32	4.18	999.4	0.33
α -Phellandrene	2.98	1127.4	0.04	4.21*	1001.5	[0.04]
Pseudolimonene	3.03	1131.6	0.01	4.21*	1001.5	[0.04]
<i>cis</i> -Dehydroxylinalool oxide	4.03*†	1206.1	[0.13]	4.23	1003.0	0.01
Δ^3 -Carene	2.78	1112.2	0.08	4.30	1007.1	0.08
(3Z)-Hexenyl acetate	5.05	1277.4	0.01	4.33	1008.9	0.01
α -Terpinene	3.16	1141.0	0.04	4.41	1014.0	0.04
Hexyl acetate	4.49*	1238.6	[0.85]	4.45	1016.7	0.75
<i>meta</i> -Cymene	4.32*	1226.1	[0.12]	4.49	1019.4	0.03
<i>para</i> -Cymene	4.32*	1226.1	[0.12]	4.53	1021.6	0.10

Limonene	3.39	1158.7	0.34	4.59*	1025.3	[0.37]
1,8-Cineole	3.49	1166.5	0.84	4.59*	1025.3	[0.37]
Lavender lactone	9.39*	1601.4	[0.25]	4.73	1034.1	0.01
(Z)- β -Ocimene	4.00*†	1203.8	[2.70]	4.82	1040.1	2.67
(E)- β -Ocimene	4.20*†	1218.2	[2.29]	4.98	1049.8	2.38
γ -Terpinene	4.03*†	1206.1	[0.13]	5.09	1056.7	0.13
<i>cis</i> -Sabinene hydrate	7.10*	1427.4	[0.15]	5.22	1065.1	0.06
<i>cis</i> -Linalool oxide (fur.)	6.73*	1400.1	[0.16]	5.31	1070.5	0.11
Octanol	8.42*	1525.9	[31.43]	5.39	1075.3	0.01
α -Pinene oxide analog	5.61*	1319.3	[0.13]	5.44	1078.4	0.04
Isoterpinolene	4.49*	1238.6	[0.85]	5.52	1083.9	0.01
Terpinolene	4.49*	1238.6	[0.85]	5.55*	1085.7	[0.16]
<i>trans</i> -Linalool oxide (fur.)	7.10*	1427.4	[0.15]	5.55*	1085.7	[0.16]
Rosefuran	6.17	1359.4	0.09	5.74	1097.6	0.03
Linalool	8.31*	1517.6	[32.74]	5.90	1107.4	32.75
(Z)-6-Methyl-3,5-heptadien-2-one	8.42*	1525.9	[31.43]	5.91	1108.3	0.05
β -Thujone	6.48	1382.2	0.07	5.94	1110.2	0.05
Octen-3-yl acetate	6.02	1348.5	0.78	6.04	1116.5	0.80
Unknown LAAN I [m/z 82, 81 (72), 43 (64), 54 (32), 41 (20)...]	9.81*	1635.6	[5.65]	6.10	1120.1	0.03
Octan-3-yl acetate	5.46	1308.8	0.22	6.22	1128.1	0.18
allo-Ocimene	5.81	1333.6	0.06	6.25	1129.9	0.07
(Z)-Myroxide	7.04*	1422.6	[0.02]	6.32	1134.5	0.02
Camphor	7.44*	1452.1	[0.14]	6.36	1136.8	0.16
(E)-Myroxide	7.31*	1442.9	[0.03]	6.45	1142.8	0.03
Hexyl isobutyrate	5.55	1315.1	0.07	6.59	1151.7	0.08
Nerol oxide	7.04*	1422.6	[0.02]	6.62	1153.9	0.01
Borneol	9.99*	1649.8	[1.26]	6.76	1162.6	0.38
<i>cis</i> -Linalool oxide (pyr.)	10.53	1694.0	0.01	6.80	1165.2	0.02
Lavandulol	9.81*	1635.6	[5.65]	6.86	1169.3	1.07
Terpinen-4-ol	8.80	1555.7	2.85	6.95	1174.8	2.95
(3E,5Z)-Undeca-1,3,5-triene	6.09	1354.1	0.01	6.99	1177.1	0.01
Cryptone	9.39*	1601.4	[0.25]	7.03	1179.6	0.22
<i>meta</i> -Cymen-8-ol	11.69	1791.4	0.04	7.07	1182.4	0.04
<i>para</i> -Cymen-8-ol	11.72	1794.4	0.04	7.11*	1184.8	[0.07]
Butyl hexanoate	6.43	1378.4	0.01	7.11*	1184.8	[0.07]

Myrtenal	8.91	1564.3	0.01	7.17*	1188.7	[0.91]
α -Terpineol	9.99*	1649.8	[1.26]	7.17*	1188.7	[0.91]
Hexyl butyrate	6.52	1385.0	0.46	7.26*	1194.5	[0.53]
Hodiendiol (2,6-dimethylocta-3,7-diene-2,6-diol)	13.01*	1909.1	[0.21]	7.26*	1194.5	[0.53]
Verbenone	9.81*	1635.6	[5.65]	7.37	1201.4	0.02
Unknown SASC VII [m/z 43, 71 (66), 59 (52), 41 (47), 68 (46)...]	7.71	1472.1	0.01	7.39	1203.1	0.02
(3E,5E)-2,6-Dimethylocta-3,5,7-trien-2-ol	11.59	1783.1	0.02	7.53	1212.4	0.02
Octyl acetate	7.31*	1442.9	[0.03]	7.57	1214.8	0.03
<i>trans</i> -Carveol	11.62	1786.2	0.01	7.64	1219.3	0.02
Bornyl formate	8.31*	1517.6	[32.74]	7.68	1222.0	0.04
Nerol	11.26	1755.0	0.15	7.80	1229.9	0.16
Hexyl 2-methylbutyrate	6.73*	1400.1	[0.16]	7.86	1234.2	0.10
Carvone	10.22*	1668.5	[0.04]	7.93*	1238.9	[0.08]
Neral	9.73	1628.7	0.02	7.93*	1238.9	[0.08]
Hexyl isovalerate	6.97*	1417.9	[0.17]	8.00	1243.4	0.03
Linalyl acetate	8.42*	1525.9	[31.43]	8.27*	1261.9	[31.80]
Geraniol	11.82	1803.4	0.38	8.27*	1261.9	[31.80]
Geranial	10.33	1677.2	0.05	8.40	1270.1	0.03
2,6-Dimethyl-1,7-octadiene-3,6-diol	14.87	2084.4	0.01	8.51	1278.0	0.01
Bornyl acetate	8.51*	1533.5	[0.50]	8.58	1282.5	0.06
Lavandulyl acetate	9.01	1571.8	3.18	8.75	1293.6	3.19
Thymol	15.36	2132.1	0.02	8.89	1303.1	0.02
Hexyl tiglate	9.12*	1580.3	[0.20]	9.29	1331.5	0.06
Hodiendiol derivative	13.11	1918.2	0.03	9.43	1341.6	0.03
α -Terpinyl acetate	9.95	1646.5	0.02	9.51	1346.8	0.01
Unknown SASC II [m/z 43, 79 (47), 71 (31), 94 (27), 81 (23), 41 (22)... 197 (0)]	11.30	1758.5	0.03	9.58	1351.7	0.02
Unknown SASC III [m/z 43, 79 (46), 71 (30), 94 (25), 41 (23), 81 (21)... 197 (0)]	11.37	1764.5	0.03	9.63	1355.3	0.02
Hodiendiol derivative III	12.94*	1902.4	[0.04]	9.74	1363.0	0.02

Neryl acetate	10.41*	1683.8	[0.30]	9.77	1365.1	0.25
α -Copaene	7.44*	1452.1	[0.14]	9.85	1371.1	0.02
Daucene	7.44*	1452.1	[0.14]	9.92	1375.9	0.01
β -Bourbonene	7.76	1476.0	0.06	9.96	1379.1	0.06
Geranyl acetate	10.78	1714.4	0.42	10.04	1384.4	0.40
7-epi-Sesquithujene	8.06*	1498.7	[0.01]	10.09*	1387.9	[0.25]
Hexyl hexanoate	9.12*	1580.3	[0.20]	10.09*	1387.9	[0.25]
β -Elemene	8.65	1544.4	0.02	10.09*	1387.9	[0.25]
α -Funebrene	8.06*	1498.7	[0.01]	10.14	1391.3	0.01
Isocaryophyllene	8.42*	1525.9	[31.43]	10.26	1400.2	0.01
Sesquithujene	8.42*	1525.9	[31.43]	10.33	1404.7	0.05
<i>cis</i> - α -Bergamotene	8.51*	1533.5	[0.50]	10.44*	1413.1	[3.86]
β -Caryophyllene	8.72*	1549.3	[3.93]	10.44*	1413.1	[3.86]
α -Santalene	8.51*	1533.5	[0.50]	10.48	1416.5	0.39
Coumarin	17.31	2334.4	0.05	10.57	1422.8	0.02
<i>trans</i> - α -Bergamotene	8.72*	1549.3	[3.93]	10.71	1432.9	0.14
Isogermacrene D	9.16	1583.7	0.01	10.78	1438.0	0.01
Sesquisabinene A	9.39*	1601.4	[0.25]	10.82	1441.5	0.06
<i>cis</i> - β -Bergamotene?				10.84	1443.3	0.02
α -Humulene	9.55	1614.6	0.12	10.88	1446.2	0.12
Lavandulyl butyrate?	10.75	1712.0	0.10	10.99	1454.2	0.12
(<i>E</i>)- β -Farnesene	9.81*	1635.6	[5.65]	11.05	1458.5	4.53
Dauca-5,8-diene?	9.34	1597.5	0.01	11.14	1465.4	0.02
Germacrene D	10.05	1655.0	0.73	11.27	1474.6	0.73
<i>trans</i> - β -Bergamotene	9.81*	1635.6	[5.65]	11.35	1480.5	0.06
Isodaucene	10.22*	1668.5	[0.04]	11.47	1489.7	0.03
Hodiendiol derivative II	13.01*	1909.1	[0.21]	11.56	1496.5	0.02
γ -Cadinene	10.66*	1704.5	[0.11]	11.71*	1508.0	[0.13]
β -Bisabolene	10.41*	1683.8	[0.30]	11.71*	1508.0	[0.13]
Lavandulyl isovalerate	10.91	1725.5	0.01	11.71*	1508.0	[0.13]
Unknown CULO LIV [m/z 121, 93 (56), 91 (12), 94 (11), 122 (10)...220]	13.54	1957.7	0.02	11.80	1515.3	0.03
δ -Cadinene	10.66*	1704.5	[0.11]	11.85	1518.8	0.01
β -Sesquiphellandrene	10.83	1718.7	0.02	11.87	1520.7	0.02
Unknown LAAN IV [m/z 109, 43 (92),				11.94	1525.6	0.01

81 (85), 97 (84), 222 (55), 110 (47)...						
Isocaryophyllene epoxide B	12.38	1852.6	0.02	12.16	1543.5	0.02
cis-Sesquisabinene hydrate	13.45	1949.5	0.01	12.26	1551.4	0.01
(E)-Nerolidol	13.99	1999.7	0.02	12.41	1563.2	0.02
Dendrolasin	12.78	1887.5	0.01	12.54*	1573.1	[0.25]
Caryophyllene oxide	13.01*	1909.1	[0.21]	12.54*	1573.1	[0.25]
Caryophyllene oxide isomer	12.94*	1902.4	[0.04]	12.54*	1573.1	[0.25]
Caryophylladienol II	16.27	2224.5	0.02	13.24	1629.0	0.02
τ -Cadinol	15.11	2108.1	0.07	13.30	1634.6	0.06
(3Z)-Caryophylla-3,8(13)-dien-5 β -ol	17.02	2302.7	0.02	13.68	1666.0	0.02
Phytone	14.94	2091.1	0.01	15.74	1844.5	0.01
Pentylcurcumene?				17.00	1961.5	0.01
Total reported		98.86%			98.58%	

*: 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