

Date : June 13, 2023

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 23E30-NSO01

Customer identification : Organic Frankincense - BCE000109-032023

Type : Essential oil

Source : *Boswellia carteri*

Customer : Natural Sourcing LLC

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 : Amélie Simard, Analyste

Analysis date : June 09, 2023

Checked and approved by :

Sylvain Mercier, M. Sc., Chimiste 2014-005

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*P*HYSICO*C*HEMICAL *D*ATA

Physical aspect: Clear liquid

Refractive index: 1.4754 ± 0.0003 (20 °C; method PC-MAT-016)

*C*ONCLUSION

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
Acetone	0.04	Aliphatic ketone
2-Methyl-3-buten-2-ol	0.01	Aliphatic alcohol
(E)-2-Methyl-1,3-pentadiene	tr	Alkene
3-Methyl-2-butanone	tr	Aliphatic ketone
Unknown	tr	Unknown
Toluene	0.08	Simple phenolic
Unknown	0.02	Alkene
Unknown	tr	Unknown
Unknown	0.02	Unknown
Unknown	0.02	Unknown
Hashishene	0.67	Monoterpene
Tricyclene	0.06	Monoterpene
α-Thujene	1.63	Monoterpene
α-Pinene	38.38	Monoterpene
Unknown	0.05	Monoterpene
Camphepane	0.66	Monoterpene
α-Fenchene	0.02	Monoterpene
Thuja-2,4(10)-diene	0.45	Monoterpene
3,7,7-Trimethylcyclohepta-1,3,5-triene	0.19	Monoterpene
β-Pinene	1.33	Monoterpene
Sabinene	5.74	Monoterpene
Pseudolimonene isomer	0.02	Monoterpene
6-Methyl-5-hepten-2-one	0.03	Aliphatic ketone
Dehydro-1,8-cineole	0.06	Monoterpenic ether
Myrcene	7.15	Monoterpene
6-Methyl-5-hepten-2-ol	0.02	Aliphatic alcohol
α-Phellandrene	1.40	Monoterpene
Pseudolimonene	0.03	Monoterpene
Δ3-Carene	1.36	Monoterpene
ortho-Methylanisole	0.01	Simple phenolic
α-Terpinene	0.16	Monoterpene
meta-Cymene	0.03	Monoterpene
para-Cymene	4.00	Monoterpene
Limonene	12.67	Monoterpene
β-Phellandrene	0.70	Monoterpene
ortho-Cymene	0.03	Monoterpene
(Z)-β-Ocimene	0.36	Monoterpene
(E)-β-Ocimene	0.10	Monoterpene
γ-Terpinene	0.29	Monoterpene
cis-Sabinene hydrate	0.04	Monoterpenic alcohol
Unknown	0.02	Oxygenated monoterpene
cis-Linalool oxide (fur.)	0.02	Monoterpenic alcohol
Octanol	0.01	Aliphatic alcohol
meta-Cymenene	0.07	Monoterpene
Isoterpinolene	0.01	Monoterpene

Terpinolene	0.11	Monoterpene
para-Cymenene	0.04	Monoterpene
6,7-Epoxymyrcene	0.05	Monoterpenic ether
α -Pinene oxide	0.05	Monoterpenic ether
<i>trans</i> -Sabinene hydrate	0.03	Monoterpenic alcohol
Linalool	0.16	Monoterpenic alcohol
α -Thujone	0.02	Monoterpenic ketone
Unknown	0.15	Monoterpenic alcohol
Verbenol analog?	0.05	Monoterpenic alcohol
β -Thujone	0.09	Monoterpenic ketone
<i>cis</i> -para-Menth-2-en-1-ol	0.08	Monoterpenic alcohol
α -Campholenal	0.23	Monoterpenic aldehyde
Myrcenol	0.10	Monoterpenic alcohol
<i>cis</i> -Limonene oxide	0.06	Monoterpenic ether
<i>trans</i> -Pinocarveol	0.48	Monoterpenic alcohol
<i>trans</i> -Limonene oxide	0.02	Monoterpenic ether
<i>trans</i> -Sabinol	0.20	Monoterpenic alcohol
<i>trans</i> -Verbenol	0.53	Monoterpenic alcohol
meta-Mentha-4,6-dien-8-ol	0.15	Monoterpenic alcohol
Unknown	0.05	Oxygenated monoterpene
Pinocamphone	0.06	Monoterpenic ketone
Pinocarvone	0.07	Monoterpenic ketone
Borneol	0.06	Monoterpenic alcohol
α -Phellandren-8-ol	0.22	Monoterpenic alcohol
<i>cis</i> -Sabinol	0.02	Monoterpenic alcohol
Umbellulone	0.03	Monoterpenic ketone
Terpinen-4-ol	0.59	Monoterpenic alcohol
Thuj-3-en-10-al	0.09	Monoterpenic aldehyde
meta-Cymen-8-ol	0.06	Monoterpenic alcohol
para-Cymen-8-ol	0.15	Monoterpenic alcohol
α -Terpineol	0.41	Monoterpenic alcohol
Myrtenal	0.04	Monoterpenic aldehyde
Myrtenol	0.18	Monoterpenic alcohol
<i>cis</i> - α -Phellandrene epoxide (iPr vs Me)	0.09	Monoterpenic ether
Verbenone	0.33	Monoterpenic ketone
<i>trans</i> -Piperitol	0.04	Monoterpenic alcohol
Unknown	0.07	Oxygenated monoterpene
<i>trans</i> -Carveol	0.17	Monoterpenic alcohol
exo-2-Hydroxycineole	0.03	Monoterpenic alcohol
<i>cis</i> -Carveol	0.05	Monoterpenic alcohol
Cuminal	0.04	Monoterpenic aldehyde
Hexyl 2-methylbutyrate	0.01	Aliphatic ester
Carvone	0.15	Monoterpenic ketone
Carvotanacetone	0.03	Monoterpenic ketone
Piperitone	0.10	Monoterpenic ketone
3,5-Dimethoxytoluene	0.06	Simple phenolic
Unknown	0.04	Oxygenated monoterpene
Decanol	0.02	Aliphatic alcohol
Bornyl acetate	0.27	Monoterpenic ester
para-Cymen-7-ol	0.04	Monoterpenic alcohol
<i>trans</i> -Pinocarvyl acetate	0.02	Monoterpenic ester
Thymol	0.02	Monoterpenic alcohol

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Carvacrol	0.05	Monoterpenic alcohol
Bicycloelemene	0.03	Sesquiterpene
Unknown	0.02	Unknown
α -Cubebene	0.18	Sesquiterpene
α -Terpinyl acetate	0.03	Monoterpenic ester
Cyclosativene I	0.04	Sesquiterpene
Cyclosativene II	0.05	Sesquiterpene
α -Ylangene	0.06	Sesquiterpene
α -Copaene	0.70	Sesquiterpene
β -Bourbonene	0.33	Sesquiterpene
1,5-diepi- β -Bourbonene	0.05	Sesquiterpene
β -Cubebene	0.09	Sesquiterpene
β -Elemene	1.07	Sesquiterpene
Isocaryophyllene	0.05	Sesquiterpene
α -Gurjunene	0.16	Sesquiterpene
β -Caryophyllene	2.34	Sesquiterpene
cis- α -Bergamotene	0.08	Sesquiterpene
β -Copaene	0.06	Sesquiterpene
trans- α -Bergamotene	0.13	Sesquiterpene
6,9-Guaiadiene	0.10	Sesquiterpene
Unknown	0.04	Sesquiterpene
trans-Muurola-3,5-diene	0.06	Sesquiterpene
α -Humulene	0.50	Sesquiterpene
allo-Aromadendrene	0.19	Sesquiterpene
cis-Muurola-4(15),5-diene	0.03	Sesquiterpene
trans-Cadina-1(6),4-diene	0.05	Sesquiterpene
γ -Murolene	0.31	Sesquiterpene
Germacrene D	0.41	Sesquiterpene
β -Selinene	0.47	Sesquiterpene
δ -Selinene	0.06	Sesquiterpene
trans-Muurola-4(15),5-diene	tr	Sesquiterpene
Bicyclogermacrene	0.05	Sesquiterpene
epi-Cubebol	0.16	Sesquiterpenic alcohol
α -Selinene	0.33	Sesquiterpene
α -Murolene	0.17	Sesquiterpene
Germacrene A	0.05	Sesquiterpene
δ -Amorphene	0.02	Sesquiterpene
γ -Cadinene	0.34	Sesquiterpene
Cubebol	0.29	Sesquiterpenic alcohol
δ -Cadinene	0.77	Sesquiterpene
trans-Cadina-1,4-diene	0.04	Sesquiterpene
α -Cadinene	0.04	Sesquiterpene
α -Calacorene	0.02	Sesquiterpene
α -Elemol	0.03	Sesquiterpenic alcohol
Germacrene B	0.08	Sesquiterpene
Elemicin	0.02	Phenylpropanoid
Palustrol	0.03	Sesquiterpenic alcohol
Unknown	0.05	Oxygenated sesquiterpene
Spathulenol	0.11	Sesquiterpenic alcohol
Germacrene D-4-ol	0.07	Sesquiterpenic alcohol
Caryophyllene oxide isomer	0.06	Sesquiterpenic ether
Caryophyllene oxide	0.58	Sesquiterpenic ether

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10-epi-Liguloxide	0.03	Sesquiterpenic ether
Viridiflorol	0.85	Sesquiterpenic alcohol
Salvia-4(14)-en-1-one	0.02	Aliphatic alcohol
Copaborneol	0.09	Sesquiterpenic alcohol
Humulene epoxide II	0.11	Sesquiterpenic ether
10-epi-Cubenol	0.04	Sesquiterpenic alcohol
Unknown	0.10	Sesquiterpenic alcohol
1-epi-Cubenol	0.05	Sesquiterpenic alcohol
τ-Cadinol	0.21	Sesquiterpenic alcohol
τ-Muurolol	0.02	Sesquiterpenic alcohol
α-Muurolol	0.04	Sesquiterpenic alcohol
β-Eudesmol	0.05	Sesquiterpenic alcohol
α-Eudesmol	0.03	Sesquiterpenic alcohol
α-Cadinol	0.03	Sesquiterpenic alcohol
Dihydroeudesmol	0.02	Sesquiterpenic alcohol
(3Z)-Caryophylla-3,8(13)-dien-5β-ol	0.04	Sesquiterpenic alcohol
Shyobunol	0.01	Sesquiterpenic alcohol
α-Phellandrene dimer II	0.06	Diterpene
α-Phellandrene dimer III	0.01	Diterpene
α-Phellandrene dimer IV	0.01	Diterpene
Unknown	0.01	Unknown
(3E)-Cembrene A	0.14	Diterpene
Cembrene C	0.04	Diterpene
Cembrenol	0.06	Diterpenic alcohol
Serratol	0.47	Diterpenic alcohol
Incensole	0.09	Diterpenic alcohol
Consolidated total	97.78%	

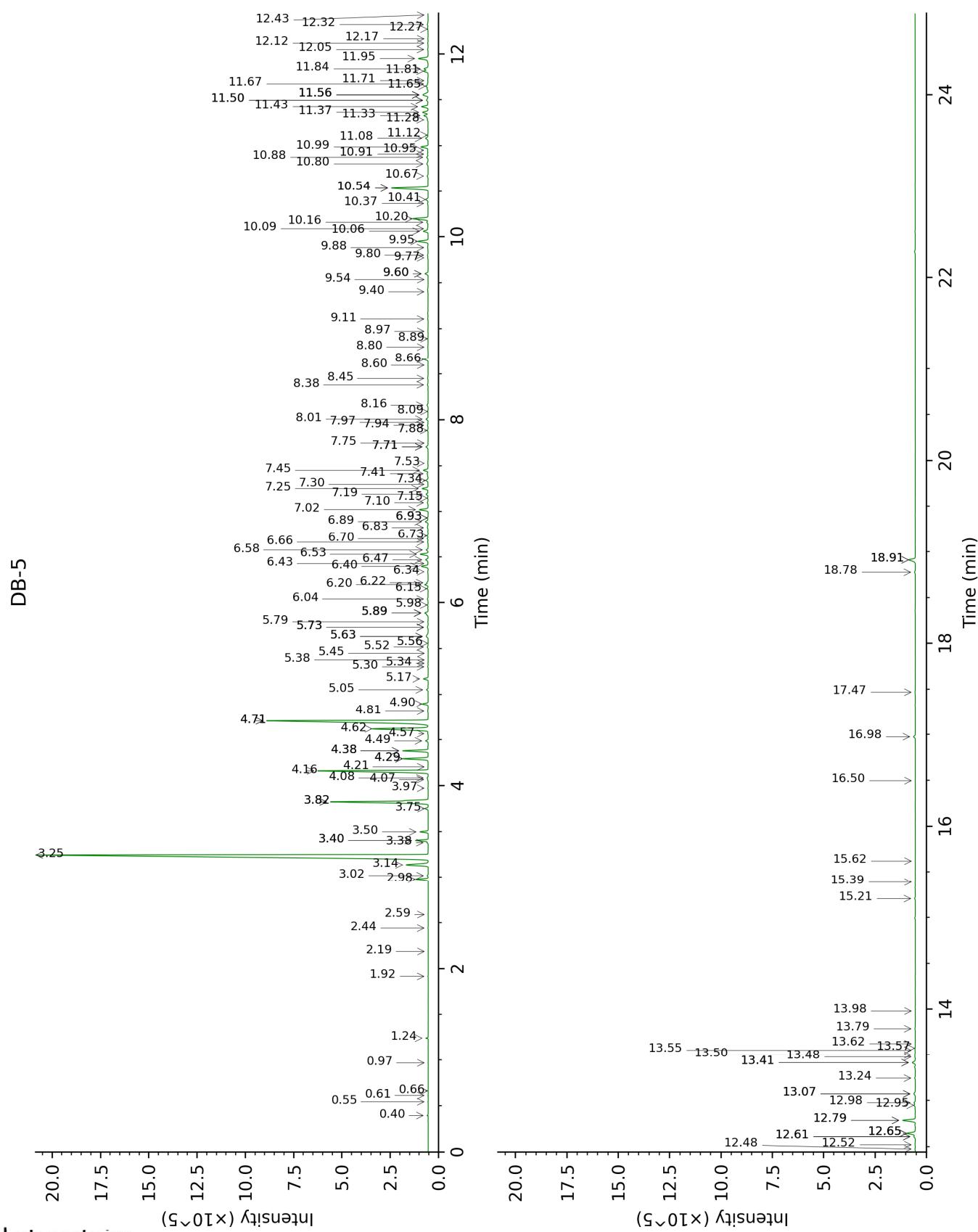
tr: The compound has been detected below 0.005% of total signal.

Note: no correction factor was applied

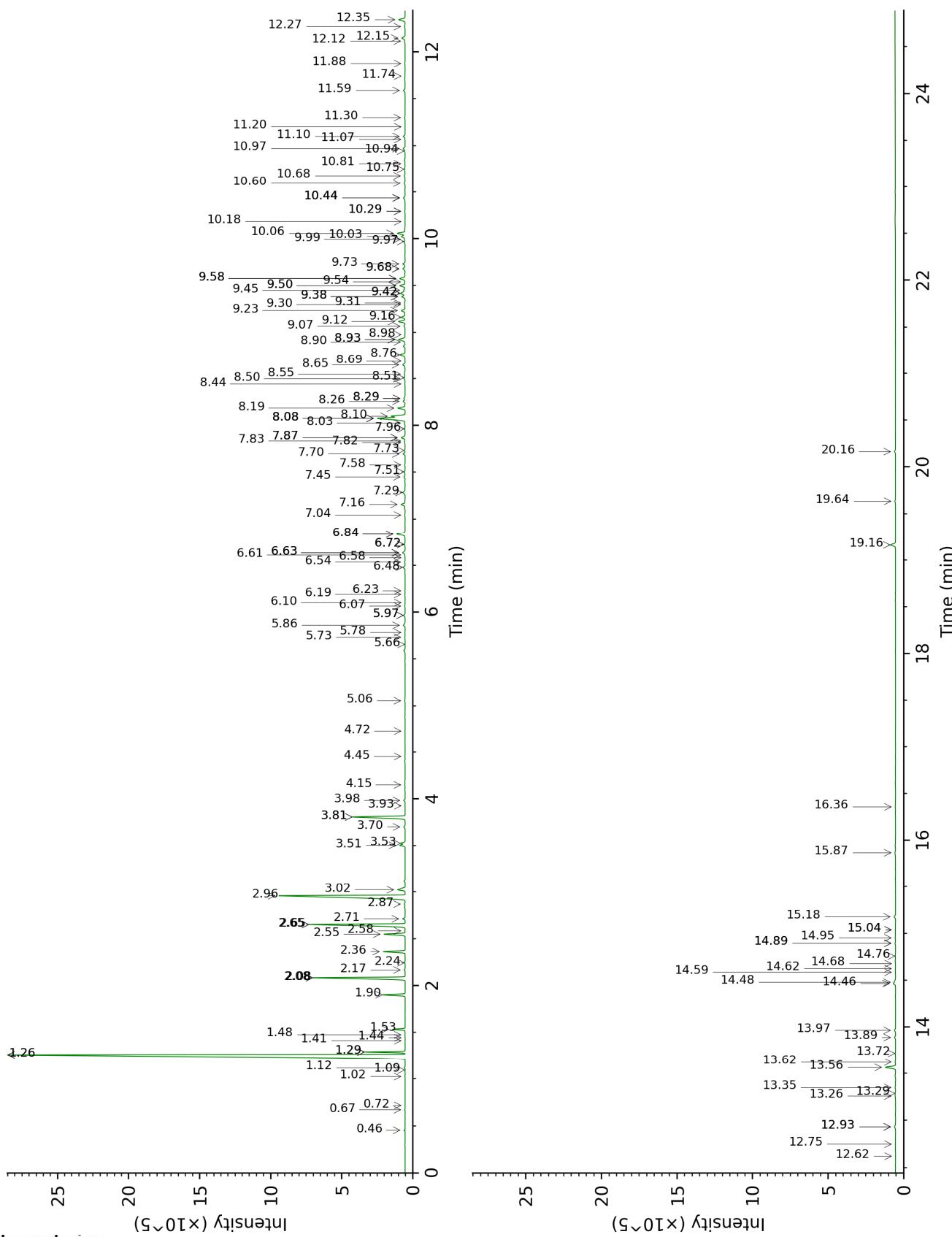
About "consolidated" data: The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm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



DB-WAX



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FULL ANALYSIS DATA

Identification	Column DB-5			Column DB-WAX		
	R.T	R.I	%	R.T	R.I	%
Acetone	0.40	499	0.04	0.46	785	0.03
2-Methyl-3-buten-2-ol	0.55	607	0.01	1.41	1017	tr
(E)-2-Methyl-1,3-pentadiene	0.61	629	tr			
3-Methyl-2-butanone	0.66	646	tr	0.72	902	tr
Unknown [m/z 93, 91 (70), 77 (48), 108 (42)]	0.97	722	tr			
Toluene	1.24	759	0.08	1.29*	1004	1.72
Unknown [m/z 109, 67 (32), 81 (14), 41 (12), 124 (10)]	1.92	832	0.02	0.67	885	0.02
Unknown [m/z 109, 43 (28), 124 (28), 41 (14), 55 (11), 79 (9), 81 (8)...]	2.19	854	tr	1.44	1020	tr
Unknown [m/z 79, 78 (45), 91 (28), 77 (28), 41 (13), 80 (12), 107 (11)... 122 (1)]	2.44	875	0.02	1.02	958	0.01
Unknown [m/z 119, 91 (35), 79 (17), 77 (13), 120 (11), 117 (9)...134 (1)]	2.59	887	0.02	1.09	970	tr
Hashishene	2.98	916	0.67	1.26*	999	39.01
Tricyclene	3.02	919	0.06	1.12	974	0.06
α -Thujene	3.14	926	1.63	1.29*	1004	[1.72]
α -Pinene	3.25	934	38.38	1.26*	999	[39.01]
Unknown [m/z 91, 92 (47), 65 (11)... 134 (1)]	3.38	942	0.05	2.17	1095	0.06
Camphepane	3.40*	944	0.67	1.53	1029	0.66
α -Fenchene	3.40*	944	[0.67]	1.48	1023	0.02
Thuja-2,4(10)-diene	3.50	950	0.45	2.08*	1086	6.20
3,7,7-Trimethylcyclohepta-1,3,5-triene	3.75	967	0.19	2.65*	1136	7.36
β -Pinene	3.82*	972	7.10	1.90	1067	1.33
Sabinene	3.82*	972	[7.10]	2.08*	1086	[6.20]
Pseudolimonene isomer	3.97	981	0.02	2.24	1103	0.04
6-Methyl-5-hepten-2-one	4.07	988	0.03	4.72	1302	0.02
Dehydro-1,8-cineole	4.08	989	0.06	2.87	1154	0.06
Myrcene	4.16	994	7.15	2.65*	1136	[7.36]
6-Methyl-5-hepten-2-ol	4.21	997	0.02	6.58	1432	0.02

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α-Phellandrene	4.29*	1002	1.50	2.55	1128	1.40
Pseudolimonene	4.29*	1002	[1.50]	2.58	1131	0.03
Δ3-Carene	4.38*	1008	1.45	2.36	1113	1.36
ortho-Methylanisole	4.38*	1008	[1.45]	5.66	1363	0.01
α-Terpinene	4.49	1015	0.16	2.71	1142	0.16
meta-Cymene	4.57	1020	0.03	3.81*	1230	3.99
para-Cymene	4.62	1023	4.00	3.81*	1230	[3.99]
Limonene	4.71*	1028	13.34	2.96	1162	12.67
β-Phellandrene	4.71*	1028	[13.34]	3.02	1167	0.70
ortho-Cymene	4.81	1035	0.03	4.15	1257	0.03
(Z)-β-Ocimene	4.90	1040	0.36	3.51	1207	0.38
(E)-β-Ocimene	5.05	1050	0.10	3.70	1222	0.11
γ-Terpinene	5.17	1057	0.29	3.53	1209	0.29
cis-Sabinene hydrate	5.30	1066	0.04	6.54	1428	0.05
Unknown [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	5.34	1068	0.02	4.45	1281	0.03
cis-Linalool oxide (fur.)	5.38	1070	0.02	6.19	1402	0.04
Octanol	5.45	1075	0.01	7.84	1527	0.03
meta-Cymenene	5.52	1079	0.07	5.86	1378	0.17
Isoterpinolene	5.56	1082	0.01	3.93	1240	0.01
Terpinolene	5.63*	1086	0.25	3.98	1244	0.11
para-Cymenene	5.63*	1086	[0.25]	5.97*	1386	0.13
6,7-Epoxymyrcene	5.73*	1092	0.08	5.73	1368	0.05
α-Pinene oxide	5.73*	1092	[0.08]	5.06	1319	0.05
trans-Sabinene hydrate	5.79	1096	0.03	7.58	1507	0.03
Linalool	5.89*†	1102	0.33	7.70	1516	0.16
α-Thujone	5.89*†	1102	[0.33]	5.78	1372	0.02
Unknown [m/z 119, 109 (94), 43 (61), 95 (56), 91 (48), 77 (32), 152 (32), 137 (31), 134 (24)]	5.89*†	1102	[0.33]	8.10†	1548	[3.68]
Verbenol analog?	5.98	1108	0.05	7.96	1537	0.04
β-Thujone	6.04	1112	0.09	5.97*	1386	[0.13]
cis-para-Menth-2-en-1-ol	6.15	1119	0.08	7.73	1519	0.05
α-Campholenal	6.20	1122	0.23	6.64*	1436	0.23
Myrcenol	6.22	1123	0.10	8.50	1580	0.10
cis-Limonene oxide	6.34	1131	0.06	6.07	1393	0.04
trans-Pinocarveol	6.40	1134	0.48	8.76	1600	0.45
trans-Limonene oxide	6.43	1136	0.02	6.23	1405	0.02
trans-Sabinol	6.47	1139	0.20	9.38*†	1651	0.79
trans-Verbenol	6.53	1143	0.53	9.12	1629	0.54
meta-Mentha-4,6-dien-8-ol	6.58	1146	0.15	8.92*	1613	0.64

Unknown [m/z 109, 81 (39), 41 (38), 95 (24)... 152 (1)]	6.66	1151	0.05			
Pinocamphone	6.70	1154	0.06	6.84*	1451	0.77
Pinocarvone	6.73	1156	0.07	7.51	1501	0.08
Borneol	6.82	1162	0.06	9.38*†	1651	[0.79]
α-Phellandren-8-ol	6.89	1166	0.22	9.73	1680	0.19
cis-Sabinol	6.93*	1168	0.05	10.44*	1739	0.19
Umbellulone	6.93*	1168	[0.05]	8.51	1580	0.03
Terpinen-4-ol	7.02	1174	0.59	8.19	1555	0.60
Thuj-3-en-10-al	7.10	1179	0.09	8.29*	1563	0.12
meta-Cymen-8-ol	7.15	1182	0.06	11.07	1794	0.02
para-Cymen-8-ol	7.19	1185	0.15	11.10	1796	0.15
α-Terpineol	7.25	1189	0.41	9.42*†	1654	[0.79]
Myrtenal	7.30	1192	0.04	8.29*	1563	[0.12]
Myrtenol	7.34	1194	0.18	10.44*	1739	[0.19]
cis-α-Phellandrene epoxide (iPr vs Me)	7.41	1199	0.09	10.60	1753	0.10
Verbenone	7.45	1202	0.33	9.23	1639	0.34
trans-Piperitol	7.53	1206	0.04	9.97	1700	0.09
Unknown [m/z 43, 111 (88), 126 (74), 125 (61)... 168? (2)]	7.71*	1218	0.18	10.75	1766	0.07
trans-Carveol	7.71*	1218	[0.18]	10.97	1785	0.17
exo-2-Hydroxcineole	7.75	1221	0.03	11.20	1805	0.02
cis-Carveol	7.88	1230	0.05	11.30	1814	0.06
Cuminal	7.94	1234	0.04	10.18	1718	0.02
Hexyl 2-methylbutyrate	7.97	1236	0.01	6.10	1396	0.01
Carvone	8.01	1238	0.15	9.58*	1667	0.48
Carvotanacetone	8.09	1244	0.03	9.07	1625	0.11
Piperitone	8.16	1249	0.10	9.45	1657	0.13
3,5-Dimethoxytoluene	8.38	1264	0.06	10.94	1783	0.06
Unknown [m/z 109, 41 (22), 81 (14), 43 (11)... 152 (4)]	8.45	1268	0.04			
Decanol	8.60	1278	0.02	10.29*	1727	0.05
Bornyl acetate	8.66	1282	0.27	7.87*	1530	0.34
para-Cymen-7-ol	8.80	1291	0.04	13.72	2038	0.03
trans-Pinocarvyl acetate	8.89	1298	0.02	8.69	1594	0.01
Thymol	8.97	1303	0.02	14.68	2133	0.02
Carvacrol	9.11	1312	0.05	14.90*	2155	0.05
Bicycloelemene	9.40	1333	0.03	6.72*	1442	0.08
Unknown [m/z 133, 105 (45), 91 (38), 119 (36)... 150 (3)]	9.54	1342	0.02			
α-Cubebene	9.60*	1347	0.22	6.48	1424	0.18
α-Terpinyl acetate	9.60*	1347	[0.22]	9.32	1646	0.03
Cyclosativene I	9.77	1359	0.04	6.61	1434	0.02

Cyclosativene II	9.80	1361	0.05	6.64*	1436	[0.23]
α-Ylangene	9.88	1367	0.06	6.72*	1442	[0.08]
α-Copaene	9.95	1372	0.70	6.84*	1451	[0.77]
β-Bourbonene	10.06	1380	0.33	7.16	1475	0.33
1,5-diepi-β-Bourbonene	10.09	1382	0.05	7.04	1466	0.04
β-Cubebene	10.16	1386	0.09	7.45	1497	0.10
β-Elemene	10.20	1389	1.07	8.08*†	1546	3.68
Isocaryophyllene	10.37	1401	0.05	7.82	1526	0.05
α-Gurjunene	10.41	1404	0.16	7.29	1485	0.24
β-Caryophyllene	10.54*	1413	2.56	8.08*†	1546	[3.68]
cis-α-Bergamotene	10.54*	1413	[2.56]	7.87*	1530	[0.34]
β-Copaene	10.67	1423	0.06	8.03	1542	0.06
trans-α-Bergamotene	10.80	1433	0.13	8.08*†	1546	[3.68]
6,9-Guaadiene	10.88	1439	0.10	8.26	1560	0.17
Unknown [m/z 91, 161 (92), 105 (85), 119 (63), 133 (53), 79 (49), 204 (46)]	10.91	1441	0.04	8.44	1575	0.03
trans-Muurola-3,5-diene	10.95	1444	0.06	8.55	1583	0.10
α-Humulene	10.99	1447	0.50	8.92*	1613	[0.64]
allo-Aromadendrene	11.08	1454	0.19	8.65	1591	0.24
cis-Muurola-4(15),5-diene	11.12	1457	0.03	8.98	1618	0.02
trans-Cadina-1(6),4-diene	11.28	1469	0.05	8.90	1611	0.04
γ-Murolene	11.33	1472	0.31	9.16	1633	0.32
Germacrene D	11.37	1475	0.41	9.42*†	1654	[0.79]
β-Selinene	11.43	1480	0.47	9.50*	1661	0.47
δ-Selinene	11.50*	1485	0.15	9.30	1644	0.06
trans-Muurola-4(15),5-diene	11.50*	1485	[0.15]	9.50*	1661	[0.47]
Bicyclogermacrene	11.56*	1489	0.53	9.68*	1676	0.22
epi-Cubebol	11.56*	1489	[0.53]	11.59	1840	0.16
α-Selinene	11.56*	1489	[0.53]	9.58*	1667	[0.48]
α-Murolene	11.65	1496	0.17	9.68*	1676	[0.22]
Germacrene A	11.67	1498	0.05	10.00	1702	0.05
δ-Amorphene	11.71	1501	0.02	9.54	1664	0.05
γ-Cadinene	11.81†	1509	0.61	10.02	1704	0.34
Cubebol	11.84†	1510	[0.61]	12.15	1890	0.29
δ-Cadinene	11.95	1519	0.77	10.06	1707	0.66
trans-Cadina-1,4-diene	12.05	1527	0.04	10.29*	1727	[0.05]
α-Cadinene	12.12	1532	0.04	10.44*	1739	[0.19]
α-Calacorene	12.17	1536	0.02	11.74	1854	0.03
α-Elemol	12.27	1544	0.03	13.62	2029	0.04
Germacrene B	12.32	1548	0.08	10.68	1760	0.08
Elemicin	12.43	1557	0.02	15.04*	2170	0.03
Palustrol	12.48	1560	0.03	11.88	1866	0.03

Unknown [m/z 152, 109 (61), 43 (21), 137 (16), 151 (16)... 222 (6)]	12.52	1564	0.05			
Spathulenol	12.61*	1571	0.12	13.97	2062	0.11
Germacrene D-4-ol	12.61*	1571	[0.12]	13.26	1994	0.07
Caryophyllene oxide isomer	12.65*	1574	0.64	12.27	1901	0.06
Caryophyllene oxide	12.65*	1574	[0.64]	12.35	1908	0.58
10-epi-Liguloxide	12.65*	1574	[0.64]	10.81	1771	0.03
Viridiflorol	12.79*	1585	0.87	13.56	2023	0.85
Salvia-4(14)-en-1-one	12.79*	1585	[0.87]	12.62	1934	0.02
Copaborneol	12.95	1598	0.09	14.48†	2112	[0.31]
Humulene epoxide II	12.98	1600	0.11	12.93*	1963	0.14
10-epi-Cubenol	13.07*	1608	0.15	13.29	1997	0.04
Unknown [m/z 161, 189 (76), 204 (66), 105 (60), 119 (46), 107 (41), 59 (38)...222 (3)]	13.07*	1608	[0.15]	13.89	2055	0.10
1-epi-Cubenol	13.24	1622	0.05	13.35	2002	0.05
τ-Cadinol	13.41*	1636	0.24	14.46†	2111	0.31
τ-Muurolol	13.41*	1636	[0.24]	14.62	2127	0.02
α-Muurolol	13.48	1641	0.04	14.76	2141	0.04
β-Eudesmol	13.50	1643	0.05	14.95	2161	0.04
α-Eudesmol	13.55	1647	0.03	14.90*	2155	[0.05]
α-Cadinol	13.58	1649	0.03	15.04*	2170	[0.03]
Dihydroeudesmol	13.62	1653	0.02	14.59	2123	0.02
(3Z)-Caryophylla-3,8(13)-dien-5β-ol	13.79	1666	0.04	16.36	2308	0.04
Shyobunol	13.98	1682	0.01	15.87	2256	0.10
α-Phellandrene dimer II	15.21	1787	0.06	12.12	1888	0.06
α-Phellandrene dimer III	15.39	1803	0.01	12.75	1946	0.03
α-Phellandrene dimer IV	15.62	1824	0.01	12.93*	1963	[0.14]
Unknown [m/z 43, 81 (45), 137 (39), 71 (39), 93 (33), 95 (32)...]	16.50	1904	0.01			
(3E)-Cembrene A	16.98	1949	0.14	15.18	2184	0.14
Cembrene C	17.47	1996	0.04			
Cembrenol	18.78	2126	0.06	19.64	2685	0.06
Serratol	18.91*	2140	0.55	19.16	2627	0.47
Incensole	18.91*	2140	[0.55]	20.16	2751	0.09
Total identified		97.77%			97.22%	
Total reported		98.12%			97.52%	

*: 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