

Date : 2024-03-18

CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 24C04-PTH11

Customer Identification : Organic Turmeric CO2 Extract - Germany - TK0112R

Type : CO2 Extract

Source : Curcuma longa

Customer : Plant Therapy

Checked and approved by:

Alexis St-Gelais, Ph. D., Chimiste 2013-174

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CO2 Extract, *Curcuma longa*
Internal code: 24C04-PTH11

Organic Turmeric CO2 Extract - Germany - TK0112R

Report prepared for:
Plant Therapy

GAS CHROMATOGRAPHIC ANALYSIS

Method : PC-MAT-004 - Terpenes and volatiles profiling by response factor

Results : See analysis summary (next page)

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

Date : 2024-03-13

PHYSICOCHEMICAL DATA

CONCLUSION

No adulterant, contaminant or diluent has been detected using this method.

ANALYSIS SUMMARY

Identification	mg/g	% m/m	Class
2,3-Butanediol isomer II	2.54	0.25	Aliphatic alcohol
α-Thujene	0.02	0.0	Monoterpene
α-Pinene	1.98	0.2	Monoterpene
Camphepane	0.07	0.01	Monoterpene
Sabinene	0.11	0.01	Monoterpene
β-Pinene	0.32	0.03	Monoterpene
6-Methyl-5-hepten-2-one	0.02	0.0	Aliphatic ketone
2-Carene	0.16	0.02	Monoterpene
Myrcene	0.40	0.04	Monoterpene
α-Phellandrene	6.62	0.66	Monoterpene
Δ3-Carene	0.18	0.02	Monoterpene
α-Terpinene	0.12	0.01	Monoterpene
para-Cymene	3.32	0.33	Monoterpene
Limonene	0.85	0.08	Monoterpene
1,8-Cineole	6.49	0.65	Monoterpenic ether
β-Phellandrene	0.33	0.03	Monoterpene
(Z)-β-Ocimene	0.13	0.01	Monoterpene
(E)-β-Ocimene	0.15	0.01	Monoterpene
γ-Terpinene	0.28	0.03	Monoterpene
Terpinolene	0.52	0.05	Monoterpene
Linalool	0.09	0.01	Monoterpenic alcohol
cis-para-Menth-2-en-1-ol	0.02	0.0	Monoterpenic alcohol
Camphor	0.28	0.03	Monoterpenic ketone
Unknown	0.12	0.01	Oxygenated monoterpene
Borneol	0.08	0.01	Monoterpenic alcohol
δ-Terpineol	0.07	0.01	Monoterpenic alcohol
Terpinen-4-ol	0.27	0.03	Monoterpenic alcohol
para-Cymen-8-ol	0.12	0.01	Monoterpenic alcohol
α-Terpineol	0.51	0.05	Monoterpenic alcohol
cis-α-Phellandrene epoxide (iPr vs Me)	0.46	0.05	Monoterpenic ether
trans-Piperitol	0.08	0.01	Monoterpenic alcohol
Unknown	0.21	0.02	Oxygenated monoterpene
Unknown	0.14	0.01	Monoterpenic ester
Thymol	0.30	0.03	Monoterpenic alcohol
Carvacrol	0.15	0.01	Monoterpenic alcohol
para-Menth-5-en-1,2-diol isomer III	0.47	0.05	Monoterpenic alcohol
Unknown	0.27	0.03	Terpene derivative
Unknown	0.69	0.07	Terpene derivative
Unknown	0.81	0.08	Terpene derivative
Unknown	0.73	0.07	Unknown
Unknown	0.36	0.04	Sesquiterpene

Acora-3,7(14)-diene	1.31	0.13	Sesquiterpene
(<i>trans</i> ?)-6-Hydroxy- <i>para</i> -menth-1-en-3-one	2.66	0.27	Monoterpenic alcohol
β-Caryophyllene	3.43	0.34	Sesquiterpene
α-Santalene	5.97	0.6	Sesquiterpene
Caryophylla-4(12),8(13)-diene	0.17	0.02	Sesquiterpene
γ-Elemene	4.40	0.44	Sesquiterpene
<i>trans</i> -α-Bergamotene	0.85	0.08	Sesquiterpene
Unknown	1.15	0.11	Unknown
(<i>E</i>)-Vestitenone	0.94	0.09	Terpenic ketone
α-Humulene	1.66	0.17	Sesquiterpene
Unknown	0.98	0.1	Sesquiterpene
Sesquisabinene B	2.03	0.2	Sesquiterpene
(<i>E</i>)-β-Farnesene	3.55	0.35	Sesquiterpene
β-Acoradiene	0.36	0.04	Sesquiterpene
γ-Curcumene	0.60	0.06	Sesquiterpene
<i>trans</i> -β-Bergamotene	0.74	0.07	Sesquiterpene
α-Curcumene	25.71	2.57	Sesquiterpene
Unknown	1.23	0.12	Sesquiterpene
α-Zingiberene	46.48	4.65	Sesquiterpene
Unknown	0.37	0.04	Sesquiterpene
β-Curcumene	0.24	0.02	Sesquiterpene
β-Bisabolene	10.78	1.08	Sesquiterpene
Unknown	1.95	0.2	Oxygenated sesquiterpene
Unknown	8.72	0.87	Oxygenated sesquiterpene
β-Sesquiphellandrene	60.16	6.02	Sesquiterpene
Selina-4(15),7(11)-diene	0.92	0.09	Sesquiterpene
(<i>E</i>)-γ-Bisabolene	2.87	0.29	Sesquiterpene
Selina-3,7(11)-diene	1.55	0.15	Sesquiterpene
Unknown	0.39	0.04	Sesquiterpene
Germacrene B	12.23	1.22	Sesquiterpene
<i>cis</i> -Sesquisabinene hydrate	1.47	0.15	Sesquiterpenic alcohol
Unknown	0.79	0.08	Oxygenated sesquiterpene
Unknown	0.76	0.08	Oxygenated sesquiterpene
(<i>E</i>)-Nerolidol	0.62	0.06	Sesquiterpenic alcohol
Unknown	0.60	0.06	Unknown
Santalenone	9.35	0.93	Sesquiterpenic ketone
Unknown	1.77	0.18	Oxygenated sesquiterpene
α-Turmerol	5.04	0.5	Sesquiterpenic alcohol
Unknown	0.17	0.02	Oxygenated sesquiterpene
<i>trans</i> -Sesquisabinene hydrate	3.54	0.35	Sesquiterpenic alcohol
α-Dihydroturmerone	0.90	0.09	Sesquiterpenic ketone
Unknown	7.19	0.72	Oxygenated sesquiterpene
Unknown	2.80	0.28	Oxygenated sesquiterpene
<i>cis</i> -Zingiberenol	8.19	0.82	Sesquiterpenic alcohol
Unknown	15.73	1.57	Oxygenated sesquiterpene

<i>trans</i> -Zingiberenol	5.11	0.51	Sesquiterpenic alcohol
Unknown	10.56	1.06	Oxygenated sesquiterpene
Unknown	5.74	0.57	Oxygenated sesquiterpene
Unknown	4.26	0.43	Oxygenated sesquiterpene
<i>α</i> -Turmerone	203.39	20.34	Sesquiterpenic ketone
(E)- <i>α</i> -Santalal	2.71	0.27	Sesquiterpenic aldehyde
<i>α</i> -Turmerone	184.93	18.49	Sesquiterpenic ketone
Unknown	3.25	0.33	Oxygenated sesquiterpene
Unknown	4.74	0.47	Unknown
(Z)- <i>γ</i> -Atlantone	4.99	0.5	Sesquiterpenic ketone
Unknown	0.27	0.03	Oxygenated sesquiterpene
Unknown	2.96	0.3	Oxygenated sesquiterpene
<i>β</i> -Turmerone	134.86	13.49	Sesquiterpenic ketone
(E)- <i>γ</i> -Atlantone	0.62	0.06	Sesquiterpenic ketone
Curcuphenol	1.36	0.14	Sesquiterpenic alcohol
(Z)- <i>α</i> -Atlantone	7.72	0.77	Sesquiterpenic ketone
(6 <i>S</i> ,7 <i>R</i>)-Bisabolone	11.02	1.1	Sesquiterpenic ketone
Unknown	0.70	0.07	Oxygenated sesquiterpene
Xanthorizzhol?	0.56	0.06	Sesquiterpenic alcohol
Unknown	3.70	0.37	Unknown
Unknown	8.15	0.82	Oxygenated sesquiterpene
Unknown	4.78	0.48	Oxygenated sesquiterpene
(E)- <i>α</i> -Atlantone	23.01	2.3	Sesquiterpenic ketone
Unknown	5.02	0.5	Oxygenated sesquiterpene
Unknown	0.47	0.05	Oxygenated sesquiterpene
Unknown	3.88	0.39	Oxygenated sesquiterpene
Unknown	0.95	0.1	Oxygenated sesquiterpene
Unknown	8.24	0.82	Unknown
Unknown	2.44	0.24	Oxygenated sesquiterpene
Unknown	0.61	0.06	Oxygenated sesquiterpene
Unknown	0.70	0.07	Oxygenated sesquiterpene
Unknown	0.42	0.04	Oxygenated sesquiterpene
Unknown	0.71	0.07	Oxygenated sesquiterpene
Unknown	1.29	0.13	Oxygenated sesquiterpene
Unknown	6.58	0.66	Oxygenated sesquiterpene
Unknown	3.08	0.31	Unknown
Unknown	0.26	0.03	Oxygenated sesquiterpene
Unknown	0.84	0.08	Oxygenated sesquiterpene
Tumeronol B?	0.79	0.08	Sesquiterpenic alcohol
Tumeronol A	3.99	0.4	Sesquiterpenic alcohol
Palmitic acid	1.86	0.19	Aliphatic acid
Unknown	3.25	0.33	Oxygenated sesquiterpene
Unknown	0.58	0.06	Oxygenated sesquiterpene
Unknown	0.73	0.07	Oxygenated sesquiterpene
Unknown	0.54	0.05	Oxygenated sesquiterpene

Stearic acid	3.41	0.34	Aliphatic acid
α -Tocopherol	0.29	0.03	Tocopherol
γ -Sitosterol?	2.23	0.22	Sterol
Consolidated total	976.70	97.67	

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

Note: Individual compounds contents were corrected following the method of Cachet et al., 2016 (Flavour and Fragrance Journal guidelines).

Unknown compounds are expressed in equivalents of internal standard without correction.

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: 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.

CO₂ Extract, *Curcuma longa*
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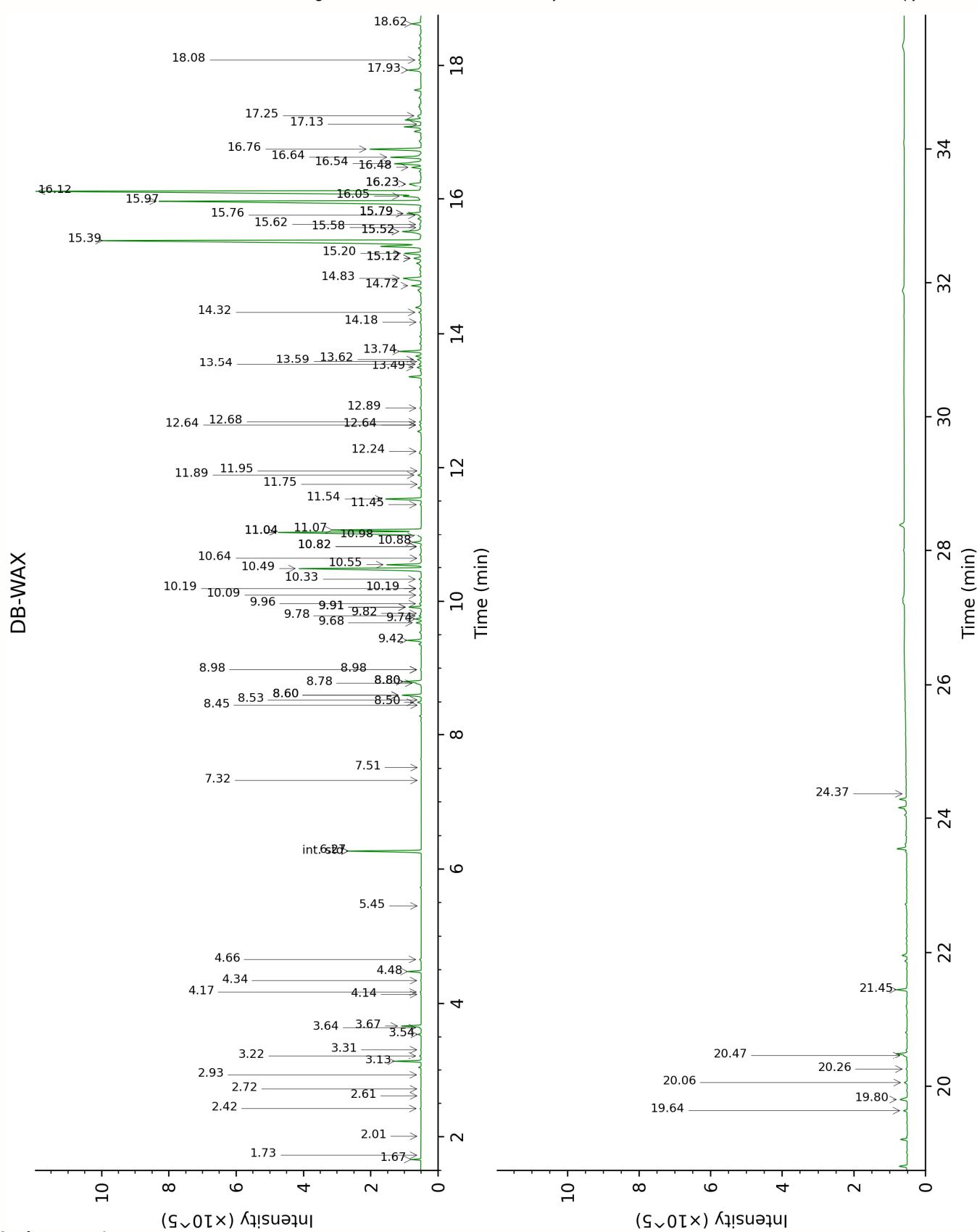
Organic Turmeric CO₂ Extract - Germany - TK0112R

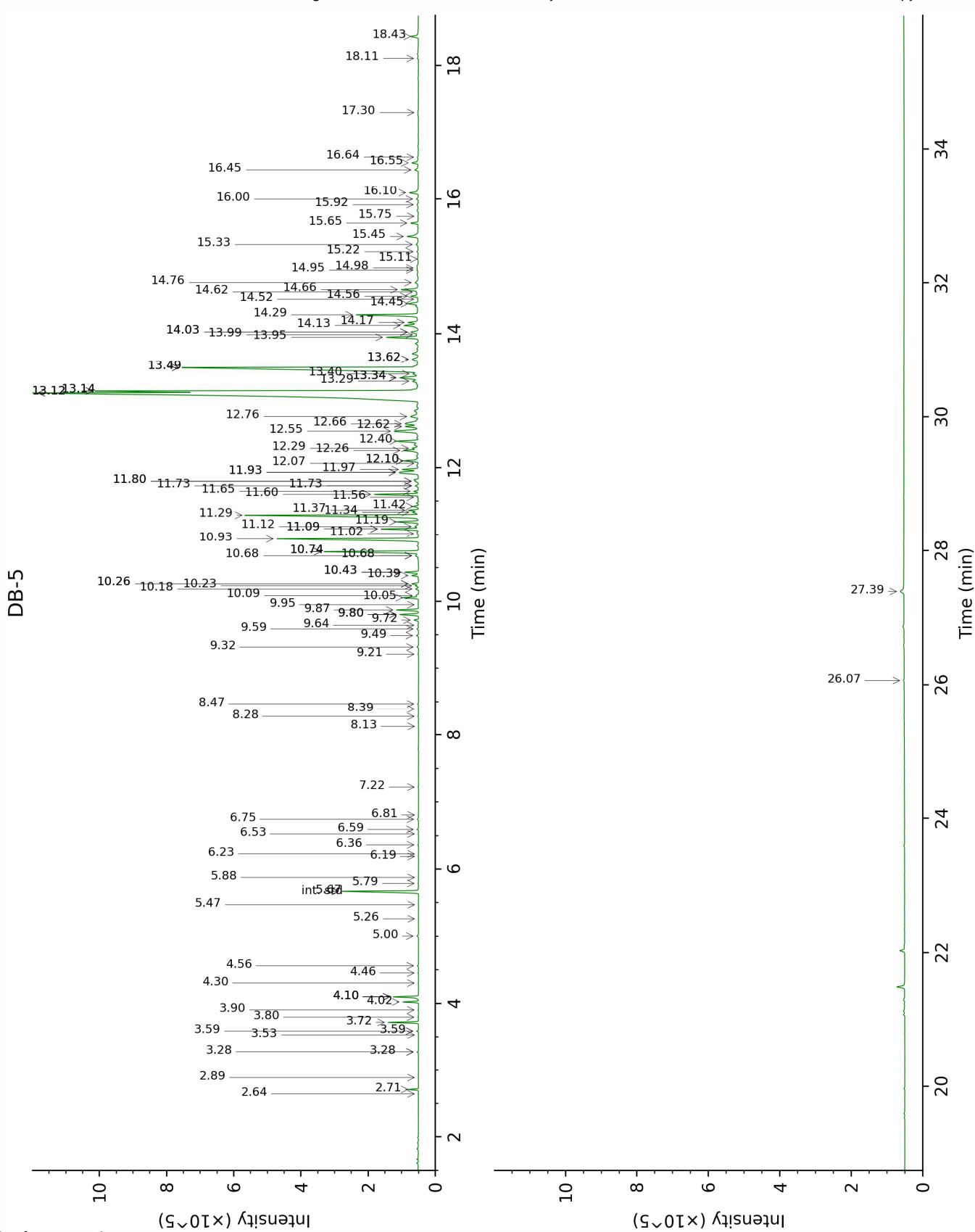
Report prepared for:
Plant Therapy

Laboratoire
PhytoChemia

Plus que des analyses... des conseils

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FULL ANALYSIS DATA

2,3-Butanediol isomer II	Column DB-WAX			Column DB-5		
	8.50	1521.5	0.12	1.28	810.2	0.14
α-Thujene	1.73	1007.9	tr	2.64	929.4	tr
α-Pinene	1.66	1001.9	0.20	2.71	934.0	0.20
Camphene	2.01	1034.4	tr	2.89	946.5	0.01
Sabinene	2.61	1090.7	0.01	3.28*	973.8	[0.03]
β-Pinene	2.42	1073.0	0.03	3.28*	973.8	[0.03]
6-Methyl-5-hepten-2-one	5.45	1302.0	tr	3.53	991.6	tr
2-Carene	2.72	1099.3	0.02	3.59*	995.5	[0.04]
Myrcene	3.22	1137.3	0.04	3.59*	995.5	[0.04]
α-Phellandrene	3.13	1130.6	0.67	3.72	1004.7	0.67
Δ3-Carene	2.93	1115.2	0.02	3.80	1009.7	0.02
α-Terpinene	3.31	1144.2	0.01	3.90	1016.7	0.01
para-Cymene	4.48	1230.0	0.37	4.02	1024.3	0.37
Limonene	3.54	1161.5	0.08	4.10*	1029.3	[0.68]
1,8-Cineole	3.67	1171.0	0.57	4.10*	1029.3	[0.68]
β-Phellandrene	3.64	1169.0	0.03	4.10*	1029.3	[0.68]
(Z)-β-Ocimene	4.14	1205.8	0.01	4.30	1042.4	0.01
(E)-β-Ocimene	4.34	1220.5	0.02	4.46	1052.1	0.02
γ-Terpinene	4.17	1208.3	0.03	4.56	1059.0	0.03
Terpinolene	4.66	1242.8	0.06	5.00	1087.5	0.05
Linalool	8.45	1518.1	0.01	5.26	1104.0	0.01
cis-para-Menth-2-en-1-ol	8.53	1524.1	0.01	5.47	1117.6	tr
Camphor	7.51	1448.6	tr	5.79	1138.2	0.02
Unknown CALU I [m/z 95, 43 (74), 109 (72), 82 (62), 110 (50)... 152 (14)]	7.32	1434.7	tr	5.88	1144.0	0.01
Borneol	10.19*	1653.2	[0.09]	6.19	1164.2	0.01
δ-Terpineol	9.91*	1631.2	[0.38]	6.23	1166.7	0.01
Terpinen-4-ol	8.98*	1558.3	[0.04]	6.36	1175.5	0.02
para-Cymen-8-ol	11.95	1799.4	0.01	6.53	1186.1	0.01
α-Terpineol	10.19*	1653.2	[0.09]	6.59	1190.4	0.05
cis-α-Phellandrene epoxide (iPr vs Me)	11.45	1756.9	0.04	6.74	1200.2	0.04
trans-Piperitol	10.82*	1703.8	[0.05]	6.81	1204.3	0.01
Unknown CIAU II [m/z 137, 152 (28), 43 (25), 91 (24), 109 (23), 119 (19)]	11.75	1782.1	0.01	7.22	1232.4	0.02
Unknown SCMO II [m/z 93, 43 (60),	13.58	1944.6	0.02	8.13	1293.3	0.01

108 (58), 69 (36), 41 (35)... 150 (5), 184 (1)]						
Thymol	15.58	2135.3	0.06	8.28	1303.5	0.03
Carvacrol	15.79*	2156.0	[0.55]	8.39	1311.5	0.01
<i>para</i> -Menth-5-en-1,2-diol isomer III	15.62	2139.8	0.10	8.47	1317.1	0.04
Unknown CULO III [m/z 105, 91 (66), 120 (53), 93 (48), 77 (47), 71 (46), 43 (37), 145 (22)... 178 (2)]	11.89	1793.9	0.12	9.21	1369.8	0.02
Unknown CULO IV [m/z 119, 161 (36), 43 (33), 176 (26), 91 (24), 105 (22)]	12.89	1881.2	0.06	9.32	1377.4	0.05
Unknown CULO VI [m/z 43, 105 (50), 120 (40), 145 (36), 119 (33), 93 (30)... 176 (6)]				9.49	1389.5	0.06
Unknown CALU VIII [m/z 71, 100 (92), 111 (79), 69 (46), 109 (45)....]				9.59	1396.6	0.06
Unknown CULO IX [m/z 119, 93 (83), 91 (51), 77 (32), 41 (31)... 202 (16)]	8.78*†	1543.1	[0.16]	9.64	1400.4	0.03
Acora-3,7(14)-diene (<i>trans</i> ?)-6-Hydroxy- <i>para</i> -menth-1-en-3-one	8.60*	1529.5	[0.64]	9.72	1406.1	0.14
β-Caryophyllene	17.25	2307.5	0.20	9.80*	1412.3	[0.55]
α-Santalene	8.80*†	1544.9	[0.63]	9.87	1417.3	0.61
Caryophylla-4(12),8(13)-diene	8.60*	1529.5	[0.64]	9.95	1423.1	0.02
γ-Elemene	8.98*	1558.3	[0.04]	10.06	1431.0	0.45
<i>trans</i> -α-Bergamotene	9.42	1591.8	0.44	10.08	1433.2	0.09
Unknown CULO LVI [m/z 91, 129 (98), 143 (94), 185 (81), 200 (76)....]				10.18	1440.7	0.09
(E)-Vestitenone	12.64*	1859.1	[0.06]	10.23	1444.3	0.08

α -Humulene	9.68	1612.6	0.17	10.26*	1446.5	[0.20]
Unknown CULO X [m/z 69, 91 (78), 109 (54), 202 (43), 41 (36), 120 (34)]	9.78	1620.8	0.07	10.26*	1446.5	[0.20]
Sesquisabinene B	9.74	1617.2	0.19	10.39	1455.8	0.21
(E)- β -Farnesene	9.91*	1631.2	[0.38]	10.43*	1459.4	[0.40]
β -Acoradiene	9.82	1623.7	0.04	10.43*	1459.4	[0.40]
γ -Curcumene	10.09	1645.4	0.06	10.68*	1477.9	[0.13]
<i>trans</i> - β -Bergamotene	9.96	1635.2	0.07	10.68*	1477.9	[0.13]
ar-Curcumene	11.07	1725.4	2.75	10.74*	1482.5	[2.85]
Unknown CULO XI [m/z 95, 119 (77), 91 (72), 105 (64), 202 (63), 93 (61), 145 (57), 131 (56)]	10.33	1664.3	0.09	10.74*	1482.5	[2.85]
α -Zingiberene	10.49	1677.0	4.74	10.93	1496.8	4.78
Unknown CULO XII [m/z 119, 91 (14), 120 (10), 117 (9)... 200? (2)]	12.24	1824.8	0.05	11.02	1503.0	0.03
β -Curcumene	10.64	1689.2	0.02	11.09*	1508.5	[1.06]
β -Bisabolene	10.55	1681.6	1.09	11.09*	1508.5	[1.06]
Unknown CULO XIII [m/z 93, 91 (62), 119 (57), 105 (44), 43 (43)... 220? (1)]				11.12	1511.3	0.15
Unknown CULO LIV [m/z 121, 93 (56), 91 (12), 94 (11), 122 (10)...220]	13.74	1959.2	0.71	11.19	1517.0	0.67
β -Sesquiphellandrene	11.04*	1722.3	[6.19]	11.29	1524.7	6.19
Selina-4(15),7(11)-diene	10.98	1717.6	0.09	11.34*†	1528.2	[0.21]
(E)- γ -Bisabolene	10.88	1709.2	0.29	11.36*†	1530.4	[0.28]
Selina-3,7(11)-diene	11.04*	1722.3	[6.19]	11.42	1535.1	0.16
Unknown CULO XV [m/z 91, 93 (82), 79 (79), 77 (68), 67 (55), 41 (49)... 202 (12)]	10.82*	1703.8	[0.05]	11.56	1545.9	0.03
Germacrene B	11.54	1764.0	1.20	11.60	1549.3	1.26
cis-Sesquisabinene hydrate	13.62	1948.0	0.15	11.65	1552.9	0.14

Unknown CULO XVII [m/z 96, 138 (97), 95 (70), 109 (69), 67 (49), 110 (49), 41 (43), 79 (42)... 220 (10)]	12.68	1863.3	0.06	11.73*	1559.4	[0.12]
Unknown CULO XVI [m/z 138, 96 (100), 95 (85), 109 (74), 110 (60), 105 (57)... 220 (10)]	12.64*	1859.1	[0.06]	11.73*	1559.4	[0.12]
(E)-Nerolidol	14.18	1999.4	0.06	11.80*	1564.7	[0.10]
Unknown CULO XVIII [m/z 109, 67 (30), 43 (24), 91 (19)...]				11.80*	1564.7	[0.10]
Santalenone				11.93*	1575.2	[1.00]
Unknown CULO XIX [m/z 105, 83 (65), 120 (41), 119 (35), 91 (29), 55 (22)... 218? (t)]	13.49	1936.3	0.13	11.93*	1575.2	[1.00]
ar-Turmerol	15.79*	2156.0	[0.55]	11.98	1578.6	0.50
Unknown CULO XXI [m/z 43, 91 (63), 41 (61), 79 (58), 95 (49), 93 (47)... 202 (36)...]				12.07	1585.7	0.01
trans-Sesquabinene hydrate	14.72	2050.9	0.33	12.10*	1588.7	[0.51]
ar-Dihydroturmerone	14.32	2013.3	0.09	12.10*	1588.7	[0.51]
Unknown CULO XXII [m/z 119, 132 (17), 91 (12), 120 (10), 117 (9)... 216? (2)]	15.20	2097.2	0.66	12.26	1600.9	0.56
Unknown CULO XXIV [m/z 94, 79 (81), 91 (44), 43 (40), 125 (34), 77 (33), 93 (30)... 218 (11)]	13.54	1940.6	0.08	12.29	1603.4	0.22
cis-Zingiberenol	14.83	2061.3	0.94	12.40	1612.3	0.77
Unknown CULO XXV [m/z 119, 85	16.64	2242.6	1.14	12.55	1624.6	1.22

(92), 105 (37), 120 (36), 91 (28)... 218 (6)]						
<i>trans</i> -Zingiberenol	15.52*	2129.5	[0.92]	12.62	1630.4	0.48
Unknown CULO XXVI [m/z 120, 91 (29), 43 (25), 93 (23), 77 (21)... 218 (1)]				12.66	1633.8	0.82
Unknown CULO XXVII [m/z 83, 109 (45), 43 (43), 55 (36), 41 (35)... 220 (3)]	16.24*	2201.2	[0.70]	12.76	1642.6	0.44
Unknown COGU XVII [m/z 95, 96 (40), 69 (26), 109 (24), 41 (23)...222 (6)]	16.48	2227.0	0.32	13.12*†	1671.9	[29.17]
ar-Turmerone	16.12	2189.2	19.48	13.12*†	1671.9	[29.17]
(E)- α -Santalal	15.12*	2090.0	[0.30]	13.14*†	1674.3	[10.44]
α -Turmerone	15.39	2116.1	16.63	13.14*†	1674.3	[10.44]
Unknown AMBA XV [m/z 69, 41 (90), 123 (74), 122 (51)... 206 (14), 218 (2)]	16.24*	2201.2	[0.70]	13.29	1686.4	0.25
Unknown CULO LXVI [m/z 120, 85 (26), 125 (22), 91 (19), 105 (17), 121 (15)...]				13.34*	1690.7	[0.85]
(Z)- γ -Atlantone	15.52*	2129.5	[0.92]	13.34*	1690.7	[0.85]
Unknown ZIOF XXVI [m/z 69, 41 (59), 118 (33), 43 (32), 55 (31)... 234? (t)]	17.13	2294.1	0.02	13.34*	1690.7	[0.85]
Unknown CULO XXVIII [m/z 199, 132 (99), 59 (25), 91 (20), 117 (19), 43 (14)... 216? (6)]	18.08	2397.3	0.11	13.40	1695.7	0.23
β -Turmerone	15.97	2174.2	12.13	13.50*	1703.5	[12.85]
(E)- γ -Atlantone	15.76	2153.5	0.06	13.50*	1703.5	[12.85]
Curcuphenol	19.64	2574.2	0.13	13.62*	1714.6	[0.32]
(Z)- α -Atlantone	16.04	2181.6	0.69	13.62*	1714.6	[0.32]
(6S,7R)-Bisabolone	16.54	2232.7	1.22	13.95	1743.3	1.03

Unknown CULO XXIX [m/z 120, 91 (22), 59 (20), 121 (19), 105 (15)... 218 (1)]	15.12*	2090.0	[0.30]	13.99	1746.6	0.05
Xanthorizzhol?	20.26	2648.3	0.05	14.03*	1750.1	[0.34]
Unknown CULO LX [m/z 83, 105 (81), 93 (74), 120 (71), 109 (65), 91 (58)...]				14.03*	1750.1	[0.34]
Unknown CULO XXXI [m/z 83, 55 (21), 43 (13), 41 (9), 91 (8)... 234? (1)]	17.93	2380.7	0.59	14.13	1758.8	0.63
Unknown CULO XXXII [m/z 119, 83 (30), 91 (14), 120 (11), 114 (9)... 234 (1)]	18.62	2457.5	0.36	14.17	1762.6	0.37
(E)- α -Atlantone	16.76	2255.1	1.91	14.29	1772.5	2.11
Unknown CULO XXXIV [m/z 95, 136 (77), 83 (68), 125 (55), 109 (40), 110 (39)... 234 (7)]	19.80	2593.9	0.34	14.45	1786.9	0.39
Unknown CULO LXI [m/z 83, 120 (39), 121 (38), 119 (30), 123 (29), 55 (19)...218 (5)]				14.52	1792.7	0.04
Unknown CULO XXXIII [m/z 83, 93 (61), 55 (24), 94 (24), 43 (22), 91 (19)... 234? (1)]				14.56	1796.5	0.30
Unknown AMBA XVIII [m/z 69, 43 (95), 41 (84), 109 (78), 95 (54), 93 (49)... 177 (36), 220 (2)...]	20.47	2673.7	0.10	14.62	1801.9	0.07
Unknown CULO LVIII [m/z 83, 121 (74), 114 (74), 93 (40), 55 (20), 91				14.66	1805.1	0.64

(20)...						
Unknown CULO XXXV [m/z 83, 119 (56), 95 (53), 234 (32), 91 (30)]	20.06	2624.2	0.13	14.76	1814.5	0.19
Unknown CULO XXXVI [m/z 83, 136 (51), 43 (46), 109 (29), 55 (26), 119 (22)...234 (1)]				14.95	1831.7	0.05
Unknown CULO XXXVII [m/z 83, 136 (36), 55 (26), 109 (21), 79 (17), 43 (16)... 232 (11)]				14.98	1834.5	0.05
Unknown CULO XXXVIII [m/z 43, 83 (37), 109 (21), 55 (19), 111 (17)...]				15.11	1846.5	0.03
Unknown CULO XXXIX [m/z 83, 107 (37), 43 (32), 135 (30), 55 (27)...]				15.22	1856.5	0.06
Unknown CULO XLI [m/z 118, 83 (68), 55 (25), 117 (20), 43 (16)... 232 (1)]	21.45	2795.6	0.37	15.33	1866.3	0.10
Unknown CULO XLII [m/z 83, 43 (24), 55 (21), 109 (15), 135 (14)... 232 (1)]				15.45	1877.2	0.51
Unknown CULO LXVII [m/z 83, 137 (86), 110 (70), 109 (31), 95 (29)...]				15.65	1895.4	0.24
Unknown CULO XLIII [m/z 83, 43 (14), 55 (14), 92 (7), 91 (7)... 232 (1)]				15.75	1904.6	0.02
Unknown CULO XLIV [m/z 83, 55 (15), 43 (14), 91 (8)... 232 (1)]				15.92	1921.1	0.07
Tumeronol B?				16.00	1929.1	0.07
Tumeronol A				16.10	1938.1	0.35

Palmitic acid			16.45	1971.3	0.17	
Unknown CULO XLVII [m/z 83, 55 (22), 43 (22), 119 (19), 41 (10)...]			16.55	1981.4	0.25	
Unknown CULO XLVIII [m/z 83, 43 (22), 55 (20), 98 (14), 119 (14)...]	24.37	3189.0	0.01	16.64	1989.4	0.04
Unknown CULO XLIX [m/z 83, 135 (32), 55 (26), 125 (18), 41 (13), 109 (12)... 248 (1)]				17.30	2055.1	0.06
Unknown CULO L [m/z 83, 55 (18), 43 (16), 98 (11)...]				18.11	2137.0	0.04
Stearic acid				18.43	2171.0	0.31
α-Tocopherol				26.06	3116.6	0.03
γ-Sitosterol?				27.39	3273.1	0.22
Total reported		86.24%			95.53%	

*: 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