Green Hojari Frankincense Essential Oil

ESSENTIAL OIL ANALYSIS











CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION | Iving | Ibolions

Internal code: 18I25-FSE11-1-CC

Customer identification: Frankincense - Nigeria - II091918

Type: Essential oil

Source: Boswellia dalzielii

Customer: Flowers Shining Everywhere Inc.

living ANALYSIS

Method: PC-PA-014-17J19 - Analysis of the composition of an essential oil, or other volatile liquid, by

FAST GC-FID (in French); identifications validated by GC-MS.

Analyst: Sarah-Eve Tremblay, M. Sc. A., Chimiste

+ + 6 # 0

Checked and approved by:

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

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PHYSICOCHEMICAL DATA

Physical aspect: Clear liquid

Refractive index: 1.4655 ± 0.0003 (20 °C)

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CONCLUSION

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

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PhytoChemia

Plus que des analyses... des conseils

ANALYSIS SUMMARY

Identification	DB-5 (%)	DB-WAX (%) living ibatio Classe			
2-Methyl-3-buten-2-diving	alion tr	0.02	Aliphatic alcohol		
3-Methyl-2-butanone	tr tr	0.13	Aliphatic ketone		
Unknown	tr	tr	Unknown		
Toluene	0.02	9.97*	Simple phenolic		
Unknown	0.01	0.01	Alkene		
Unknown	0.03	0.03	Alkene		
Unknown	0.02	0.02	Unknown		
Unknown	tr	tr	Monoterpene		
Unknown	livingoibati	ion/	Monoterpene		
Hashishene	0.76	71.98*	Monoterpene		
Tricyclene	0.08	0.08	Monoterpene		
α-Thujene	9.75	[9.97]*	Monoterpene		
α-Pinene	71.50	[71.98]*	Monoterpene		
Unknown	0.03	0.02	Monoterpene		
Unknown	0.13	0.16	Monoterpene		
α-Fenchene	0.81*	0.01	Monoterpene		
Camphene iving ibotion	[0.81]*	0.78	Monoterpene		
Thuja-2,4(10)-diene • • •	0.30	1.35*	Monoterpene		
Sabinene	2.93*	[1.35]*	Monoterpene		
β-Pinene	[2.93]*	1.83	Monoterpene		
Pseudolimonene isomer	0.02	vinglib0.03	Monoterpene		
Menthatriene isomer 0	0.05*	0.04	Monoterpene		
Dehydro-1,8-cineole	[0.05]*	0.03	Monoterpenic ether		
Myrcene	3.50	3.58	Monoterpene		
3-para-Menthene?	0.03	0.01	Monoterpene		
α-Phellandrene	0.10*	0.06	Monoterpene		
Menthatriene isomer I	[0.10]*	0.05	Monoterpene		
ortho-Methylanisole	0.22	0.21	Simple phenolic		
Δ3-Carene	0.19	0.21	Monoterpene		
α-Terpinene	0.03	0.05	Monoterpene		
Unknown	0.03*	0.02	Monoterpene		
ortho-Cymene livinglib	olio // [0.03]*	0.97*	Simple phenolic		
para-Cymene	0.00	[0.97]*	Monoterpene		
Unknown	2.69	0.24*	Unknown		
β-Phellandrene	[2.69]*	0.22*	Monoterpene		
Limonene	[2.69]*	vinglib _{2:39} on	Monoterpene		
1,8-Cineole	[2.69]*	★★ [0.22]*	Monoterpenic ether		
Unknown	[2.69]*	0.03	Monoterpene **		
Cymene analog	0.01	0.02	Monoterpene		
Unknown	0.28*	0.01	Unknown		
(Z)-β-Ocimene	[0.28]*	0.29	Monoterpene		
Unknown	0.04		Unknown		
(E)-β-Ocimene living lib	Olio 0.10	0.11	Monoterpene		
γ-Terpinene + **	0.06	0.07	Monoterpene		
cis-Sabinene hydrate	0.01	0.02	Monoterpenic alcohol		
Unknown	0.01	winglib0.02on	Oxygenated monoterpene		
Unknown	0.06	0.05	Oxygenated monoterpene		
Isoperillene	0.04	中大古甲藝	Monoterpenic ether		





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para-Cymenene (0.10)* 0.01 Monoterpene 10.10)* 0.03 Monoterpene α-Pinene oxide 10.10)* 0.05 0.04 Monoterpene α-Pinene oxide 10.10 0.05 0.04 Monoterpenic ether 1773-\$abinene hydrate 0.01 0.01 Monoterpenic alcohol Monoterpenic ether 1774-\$abinene hydrate 0.05 0.03* Monoterpenic ketone 0.14* 0.11 Monoterpenic ketone 0.14* 0.11 Monoterpenic ketone 0.14* 0.11 Monoterpenic ketone 0.14* 0.11 Monoterpenic ketone 0.14* 0.19* Monoterpenic ketone 0.19* Monoterpenic ketone 0.19* 0.19* Monoterpenic alcohol 0.19* 0.19* Monoterpenic alcohol 0.19* 0.19* Monoterpenic alcohol 0.19* 0.19* Monoterpenic alcohol 0.19* 0.10* Monoterpenic alcohol 0.19* 0.10* Monoterpenic alcohol 0.19* 0.10* Monoterpenic alcohol 0.19* 0.10* Monoterpenic alcohol 0.19* 0.13* Monoterpenic alcohol 0.19* 0.11* Monoterpenic alcohol 0.19* 0.11* Monoterpenic alcohol 0.19* 0.11* Monoterpenic alcohol 0.19* 0.11* Monoterpenic alcohol 0.19* 0.19* 0.10* Monoterpenic alcohol 0.19* 0.19* Mo						
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Cembrenol 0.01 Diterpenic alcohol Incensole 0.05* 0.03 Diterpenic alcohol		0.05	liviaalihatinas			
Incensole 0.05* 0.03 Diterpenic alcohol			uningirounois	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
The state of the s	SECRETARIA MARCHANIA		0.03			
1 1 1	The second secon			Diterpenic alcohol		

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Total identified 98.00% 98.32%

*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not taken account in the identified total

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

中六台京

Note: no correction factor was applied

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Laboratoire
PhytoChemia



livinglibations



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PhytoChemia Plus que des anal ses... des conseils

Intensity (×10~5)

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+ × 6 = 0

Intensity (×10~5)

Laboratoire **PhytoChemia**

30

35

Plus que des analyses... des conseils

15

20

Intensity (×10~5)

10

5

25

Intensity (×10~5)

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+ + + = 0

FULL ANALYSIS DATA

	W						
Identification	Column DB-5			living Column DB-WAX			
2-Methyl-3-buten-	livi@glibatio	∩/ R.I	%	R.T	A#® R.I	%	
2-ol	0.49	603	tr	1.59	1015	0.02	
3-Methyl-2- butanone	0.60	643	tr	0.82	902	0.13	
Unknown [m/z 93, 91 (70), 77 (48), 108 (42)]	0.86	716	tr	0.59	822	tr	
Toluene	1.12	75409	bali 0.02	1.50*	1007	9.97	
Unknown [m/z 109, 67 (33), 41 (16), 81 (13) 124 (8)]	1.46	802	0.01	0.63	835		
Unknown [m/z 109, 67 (32), 81 (14), 41 (12), 124 (10)]	1.75 ibation/	826	0.03	0.76	884	0.03	
Unknown [m/z 79, 78 (45), 91 (28), 77 (28), 41 (13), 80 (12), 107 (11) 122 (1)]	2.26	870	0.02 livingliba l	1.18 ion/	960	0.02	
Unknown [m/z 93, 91 (75), 121 (61), 77 (58), 79 (38), 92 (26), 43 (24), 41 (23), 105 (22),107 (19), 136 (16)]	2.46	887	tr	1.13	952 livingliba	tr kions	
Unknown [m/z 93, 91 (72), 121 (58), 77 (49), 79 (41), 43 (22), 105 (20),107 (20), 41 (18), 136 (17), 92 (17)]	livinglibatio	901	0.01				
Hashishene	2.79	911	0.76	1.46*	1003	71.98	
Tricyclene	2.83	914	livo.og libal	1.29	978	0.08	
α-Thujene	2.96	922	9.75	1.50*		living[9.97] tion	
α-Pinene Unknown [m/z 93, 91 (50), 92 (37), 79 (36), 77 (35), 121 (19) 136 (t)]	3.08	930 932	71.50 0.03	1.46*	1003	0.02	
Unknown [m/z 91, 92 (47), 65 (11) 134 (1)]	livinglibatio	938	0.13	2.43	1098	0.16	
α-Fenchene	3.22*	940	0.81	1.69	1025	0.01	
Camphene	3.22*	940	[0.81]	1.76	1032	0.78	
Thuja-2,4(10)- diene	3.31	946	0.30	2.33*	1088	livih35 ibal	





Essential oil, <i>Boswellia dalzielii</i> Internal code: 18I25-FSE11-1-CC		Frankincense - Nigeria - II 091918				Report prepared for Flowers Shining Everywhere Inc.		
Sabinene	3.64*	968	2.93	2.33*	1088	[1.35]		
β-Pinene	3.64*	968	[2.93]	2.16	1071	1.83		
Pseudolimonene isomer	living ibatio	977	0.02	2.53	libation 1106	0.03		
Menthatriene isomer 0	3.89*	984	0.05	3.18	1156	0.04		
Dehydro-1,8- cineole	3.89*	984	[0.05]	3.15	1154	0.03		
Myrcene	3.96	989	3.50	2.94	1138	3.58		
3-para-Menthene?	3.99	991	0.03	2.37	1092	0.01		
α-Phellandrene	4.10*	998	0.10	2.84	1130	0.06		
Menthatriene isomer l	4.10*	998 998	[0.10]	3.44	1177	0.05		
ortho- Methylanisole	4.18	1004	0.22	5.96	1359 Irvingi	0.21		
Δ3-Carene	4.19	1004	0.19	2.65	1115	0.21		
α-Terpinene	4.29	1011	0.03	3.02	1144	0.05		
Unknown [m/z 117, 132 (96), 115 (65), 91 (44), 131	4,38*	1016	0.03	4.45	1250	0.02		
(19), 116 (18)]								
ortho-Cymene	4.38*	1016	[0.03]	4.14*	1229	0.97		
para-Cymene	4.42	1019	0.92	4.14*	1229	[0.97]		
Unknown [m/z			liviaalihakia					
109, 43 (58), 95 (26) 137 (15)]	4.46†	1021	livinglibatio	6.23*	1378	0.24		
β-Phellandrene	4.49*†	1023	[2.69]	3.34*	1169	0.22		
Limonene	4.49*†	1023	[2.69]	3.26	1162	2.39		
1,8-Cineole	4.49*†	1023	[2.69]	3.34*	1169	[0.22]		
Unknown [m/z 95,					livinglibati	00%		
123 (60), 67 (50), 41 (27) 138 (20)]	4.49*†	1023	[2.69]	5.24	1307	0.03		
Cymene analog	4.62	1031	0.01	4.55	1257	0.02		
Unknown [m/z 43, 55 (65), 41 (34), 67	livinglibatio	1 036	0.28	5.73	1342	0.01		
(32), 107 (30), 122 (26) 125 (10)]	+++==							
(Z)-β-Ocimene	4.70*	1036	[0.28]	3.84	1207	0.29		
Unknown (m/z 109, 43 (57), 91			+ * * * •	nu -	liv	inglibation		
(28), 67 (25), 93 (24), 95 (22), 77 (21), 137 (21), 41 (17), 79 (14)]	4.82	1044	0.04			****		
(E)-β-Ocimene	4.86	1046	0.10	4.04	1221	0.11		
γ-Terpinene	livi4.98 ibotio	1054	0.06	3.87	1209	0.07		
cis-Sabinene hydrate	5.12	1062	0.01	6.89	1427	0.02		
Unknown [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152	5.15	1064	0.01 ***	4.82	1277	0.02 living libati		





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(18)]			7.			
Unknown [m/z 43,						
94 (63), 109 (61),	F 00	4076	0.04	liyinglib	align	
59 (55), 79	living ibotion	1076	0.06	7.26	1455	0.05
(51)152 (2)]	44440			T A 0		
Isoperillene	5.43	1082	0.04			
y-Campholenal	5.46*	1084	0.10	5.07	1295	0.01
para-Cymenene	5.46*	1084	[0.10]	6.45	1394	0.01
Terpinolene	5.46*	1084	[0.10]	4.35	1243	0.03
α-Pinene oxide	5.53	1088	0.05	5.44	1322	0.04
trans-Sabinene	202			7.00		
hydrate	5.60	1093 glibat	0.01	7.98	1509	0.01
Perillene	5.66*	1097	0.05	6.10*	1369	0.03
Filifolone?	5.66*	1097	[0.05]	6.23*	1378	[0.24]
Linalool	5.70*	1099	0.14	8.05	1514	
α-Thujone	5.70*	1099	[0.14]	6.10*	1369	[0.03]
endo-Fenchol	5.84*	1108	0.20	8.45	1545	tr
β-Thujone	5.84*	1108	[0.20]	6.35	1387	0.19
Verbenol analog?	5.84*	1108	[0.20]	8.33	1536	0.02
cis-para-Menth-2-	loation/					
en-1-ol	5.98*	1117	0.03	8.12	1520	0.01
Chrysanthenone	5.98*	1117	[0.03]	7.22	1451	0.02
α-Campholenal	6.00	1118	0.36	7.02*	1437	0.35
trans-Pinocarveol	6.20	1131	N 72 (42 (42 (42 (42 (42 (42 (42 (42 (42 (4	9.15	1600	0.51
trans-Sabinol	6.27*	1136	0.19	9.77*†	1650	0.13
cis-Verbenol	6.27*	1136	[0.19]	9.31*	1613	0.11
Camphor	6.27*	1136	[0.19]	7.32	1459	0.06
trans-Verbenol	6.34	1140	0.71	9.50	1628	0.74
meta-Mentha-4,6-						
dien-8-ol	6.39	1143	80.0	9.31*	ivi1613 bo	[0.11]
Citronellal	6.50*	1150	0.05	7.02*	1437	0.35]
Sabinaketone	6.50*	1150	[0.05]	8.72	1566	0.05
Unknown [m/z 97,	0.50	1150	[0.00]	0.72	1500	0.00
81 (96), 109 (80),						
43 (53), 53 (40), 41	livi6.53 ibotion	1152	0.05	7.49	1472	0.07
(36), 56 (29), 95		11132	0.03	7.72	11/2	0.07
(25) 152 (1)]	中大台灣					
Pinocarvone	6.62	1158	0.02	7.94	1506	0.01
Borneol	6.66		V _{0.02} looki	9.79†	1652	[0.13]
α-Phellandren-8-ol	6.71	1164	0.13 * • * •	10.11	1678	living 0.15 tion
Isopinocamphone	6.74*	1165	0.07	7.67	1485	0.03
cis-Sabinol	6.74*	1165	[0.07]	10.83*	1738	0.16
Terpinen-4-ol	6.83	1171	0.06	8.61	1558	0.01
para-Cymen-8-ol	7.01	1183	0.05	11.48	1794	0.06
a-Terpineol	7.05	1185	0.09	9.77*†	1650	[0.13]
Myrtenal	liviz.07 ibation	1186	0.09	8.67	1562	0.10
Myrtenol	7.14	1191	0.09	10.83*	1738	[0.16]
Verbenone	7.14	1198	0.18	9.58	1634	0.21
trans-Carveol	7.52	1216		11.36*	1783	0.10
cis-Carveol	7.70	1228	tr lbatic	11.71	1814	0.03
			0.01	9.99		
Carvone Unknown [m/z	7.82 7.96	1236 1246			1668 1783	liv[0.10] bati
OHKHOWN [M/Z	7.90	1240	0.02	11.36*	1/83	[0.10]

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Total reported		98.54%			98.74%	
The state of the s		98.00%			98.32%	
Serratol	18.71*	2137	[0.05]	19.55	2621	0.03
Incensole	18.71*	2137	0.05	20.65	2755	0.03
Cembrenol	18.59	2125	0.01		7	
(3E)-Cembrene A	16.78	1946	0.05		+ ****	
α-Phellandrene dimer II	15.01	1784	0.01		living	libation
<i>trans-</i> α- Bergamotene	10.60	1430	0.02			
β-Caryophyllene	10.31	1408	0.02			
α-Copaene	9.74	1367	0.03	7.29	1456	0.02
Carvacrol	8.94	1311	0.03	15.34	2157	0.01
Thymol	8.72	1296	0.01	15.07	2129	0.03
Bornyl acetate	8.44	1278	0.08	8.28	1532	0.09
Isopiperitenone	8.26	1265	0.02	11.27	1776	0.01
3,5- Dimethoxytoluene	livigo ibal	1261	0.04	11.36* **	1783	[0.10]
109, 119 (84), 91 (81), 134 (55) 137 (27)]				livingl	ibation/	

^{*:} Two or more compounds are coeluting on this column

Note: no correction factor was applied R.T.: Retention time (minutes) R.I.: Retention index

















[[]xx]: Duplicate percentage due to coelutions, not taken account in the identified 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.