## ANALYSIS Frankincense, Royal Hojari Essential oil

# Laboratoire PhytoChemia





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livinglibations ++++

### CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLE IDENTIFICATION living libations

Internal code : 18i25-FSE14-1-CC

Customer identification: Frankincense, White - Omani - EG210818

Type: Essential oil Source: Boswellia sacra

Customer: Flowers Shining Everywhere Inc.

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

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

Analyst: Lindsay Girard, B. Sc. Analyst : Lindsay Girard, B. Sc. ++++0

Analysis date: September 27, 2018

Checked and approved by:

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

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This report is digitally signed, it is only considered valid if the digital signature is intact.

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> livinglibations + \* 4 = 0

livinglibations +++=0

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Report prepared for Flowers Shining Everywhere Inc.

PHYSICOCHEMICAL DATA

Physical aspect: Faintly yellow liquid Refractive index: 1.4675 ± 0.0003 (20 °C)

CONCLUSION

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

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#### ANALYSIS SUMMARY

	ntification	DB-5 (%)	DB-WAX (%)	
Toluene	livinglibation	0.05	78.34*	simple phenolic
Unknown	****	0.06	0.03	Alkene
Unknown	100000	0.02	0.02	Unknown
Hashishene		0.33	[78.34]*	Monoterpene
fricyclene		0.07	0.07	Monoterpene
a-Thujene		0.29	0.32	Monoterpene
a-Pinene		77.75	[78.34]*	Monoterpene
a-Fenchene		1.78*	0.01	Monoterpene
Camphene		livin yaj•otic	1.74	Monoterpene
Thuja-2,4(10)-di	ene	0.52	2.85*	Monoterpene
neta-Cymene		0.03	0.63*	Monoterpene
Sabinene		3.97	[2.85]*	Monotement long
3-Pinene		[3.97]	1.54	Monoterpene
rans-Dehydrox	vlinalool oxide	0.13	0.11	Monoterpenic ether
Myrcene		0.61	[0.63]*	Monoterpene
	The sale	0.03	ferent	Monoterpene
2-Carene 2-Pheliandrene	19libation/	0.36*	0.22	Monoterpene
seudolimonen	el VALED	[0.36]*	0.03	Monoterpene
Δ3-Carene	W	0.48	0.37	Monoterpene
ortho-Methylan	isole	0.02	0.01	Simple phenolic
a-Terpinene	isole		The second secon	Monoterpene
ortho-Cymene		0.02	0.57*	Simple phenolic
para-Cymene		0.56	[0.57]*	Monoterpene
1,8-Cineale		2.96*	0.52*	Monoterpenic ether
3-Phellandrene		[2.96]*		
		***********	[0.52]*	Monoterpene
imonene		(2.96)*	2.49	Monoterpene
Cymene analog		0.03	0.03	liviMonoterpene
Z)-β-Ocimene		0.26	0.26	Monotespene
E)-β-Ocimene		0.17	0.18	Monoterpene
y-Terpinene	WOODS:	0.15	0.17	Monoterpene
is-Sablnene hy	drate	0.01	0.02	Monoterpenic alcohol
Jnknown	livinglibation		0.03	Oxygenated monoterpene
neta-Cymenen	e *****	0.05	0.08	Monoterpene
enchone		0.01	0.01	Aliphatic alcohol
para-Cymenene		0.12* like	ingliboos	Monoterpene
Terpinolene		forest	0.01	Monoterpene
inalool		0.11*	*** 0.06	Monoterpenic alcohol
a-Thujone		[0.11]*	0.07	Monoterpenic ketone
	tha-2,8-dien-1-ol	0.02*	0.01	Monoterpenic alcohol
ris-para-Menth-	2-en-1-ol	[0.02]*	0.01	Monoterpenic alcohol
a-Campholenal		0.41	0.39	Monoterpenic aldehyde
is-Limonene ox		0.01	0.01	Monoterpenic ether
rans-Pinocarve	ol livinglibation	0.59	0.60	Monoterpenic alcohol
is-Verbenol	++++0	0.17	0.16	Monoterpenic alcohol
trans-Verbenol	-2/11/0 MHV	0.57	0.57	Monoterpenic alcohol
meta-Mentha-4	6-dien-8-ol		inglibe29on	Monoterpenic alcohol
Unknown		0.02	and in contract of	Oxygenated monoterpene
Pinocamphone		0,06	0.05	Monoterpenic ketone

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Unknown	0.05	0.06*	Oxygenated monoterpene
Pinocarvone	0.07	0,04	Monoterpenic ketone
Borneol	0.02	0.01	Iving Monoterpenic alcohol
a-Phellandren-8-ol livinglibotion	0.65	0.65	Monoterpenic alcohol
Umbellulone	0.25*	0.01	Monoterpenic ketone
Terpinen-4-al	[0.25]*	[0.95]	Monoterpenic alcohol
cis-Sabinol	[0.25]*	0.15	Monoterpenic alcohol
para-Cymen-8-ol	0.07	0.07	Monoterpenic alcohol
a-Terpineol	0.17	0.15	Monoterpenic alcohol
Myrtenal	0.17	0.19*	Monoterpenic aldehyde
Myrtenol	0.02	0.02	Monoterpenic alcohol
Verbenone	livinggootio	0.42	Monoterpenic ketone
a-Phellandrene epoxide	[0.39]*	0.02	Monoterpenic ether
trans-Carveol	0.10	0.12*	Monoterpenic alcohol
Carvone	0.03	0.33*	Monoterpenic ketone
3,5-Dimethoxytoluene	0.02	[0.12]*	Simple phenolic
Bornyl acetate	0.27	0.32	Monoterpenic ester
Carvacrol	0.03	0.04	Monoterpenic alcohol
a Taxalaul scatata	0.10	0.10	Monoterpenic ester
o-Copaene Winglibation	0.05	0.06	Sesquiterpene
β-Bourbonene + ****	0.14	0.15	Sesquiterpene
1,5-diepi-β-Bourbonene	0.02	(0.061*	Sesquiterpene
β-Cubebene	0.01	0.01	Sesquiterpene
3-Elemene	0.42	0.95*	Sesquiterpene
α-Gurjunene	0.01	0.01	Sesquiterpene
B-Caryophyllene	0.32	10.951*	Sesquiterpene
6.9-Gualadiene	0.01	[0,19]*	Sesquiterpene
a-Humulene	0.09	0.09	Sesquiterpene
Germacrene D	0.03	0.03	Sesquiterpene
β-Selinene	0.29	[0.33]*	livi Sesquiterpene
Bicyclogermacrene	0.16*	0.14*	Sesquitespene
a-Selinene	[0.16]*	[0.33]*	Sesquiterpene
a-Muurolene	0.08	[0.14]*	Sesquiterpene
Cubebol	0.07*	0.02	Sesquiterpenic alcohol
y-Cadinene livinglibotion	[0.07]*	0.06	Sesquiterpene
δ-Cadinene	0.13	0.15	Sesquiterpene
Germacrene B	0.03	0.01	Sesquiterpene
Caryophyllene oxide	0.05	0.05	Sesquiterpenic ether
Copaborneol	0.03	nglibooun	Sesquiterpenic alcohol
10-epi-Cubenol	0.03	****	Sesquiterpenic alcohol
a-Muurolol	0.02	0.01	Sesquiterpenic alcohol
α-Phellandrene dimer II	0.02	0.01	Diterpene
Total identified	97.42%	97.51%	THE PARTY OF THE P

Total identified 97.42% 97.51%

\*: Two or more compounds are coeluting on this column
[xxi]: Duplicate percentage due to coelutions, not taken account in the identified total

Note: no correction factor was applied

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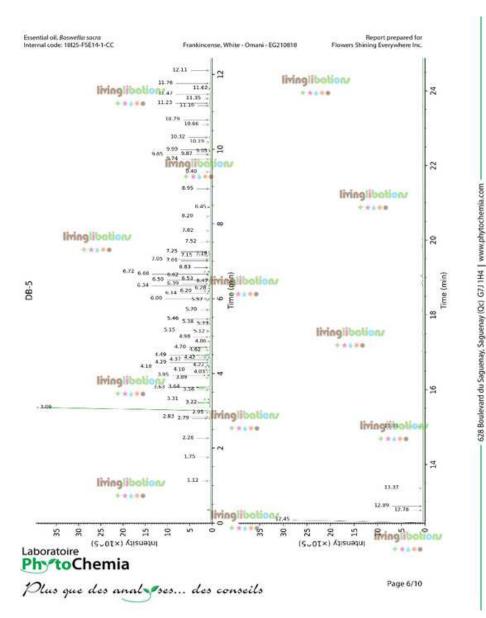


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This page was intentionally left blank. The following pages present the complete data of the living analysis.



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Essential oil, Boswellio so Internal code: 18I25-PSE		Frank	kincense, White - Om	Flowers	Report prepared for Flowers Shining Everywhere Inc.		
meta-Cymenene	5.33	1076	0.05	6.23	1379	0.08	
Fenchone	5.38	1079	0.01	5.78	1346	0.01	
para-Cymenene	5.46*	1084	0.12	6.35109	libal1387	0.05	
Terpinolene	livis/461bot	100/1084	[0.12]	4.35	1243	0.07	
Linatool	5.70*	1099	0.11	8.06	1514	0.06	
a-Thujone	5.70°	1099	[0.11]	6.14	1372	0.07	
trans-para- Mentha-2,8-dien- 1-ol	5.97*	1116	0.02	8.99	1587	0.01	
cis-para-Menth-2- en-1-ol	5.97*	1116	[0.02]	8.16	1522	0.01	
α-Campholenal	6.00	insegli	bolicour.	7.02	1437	0.39	
c/s-Limonene oxide	6.14	1127	0.01	6.47	1396	0.01	
trans-Pinocarveol	6.20	1131	0.59	9.15	1600-1	olibe(0.60.	
cis-Verbenol	6.28	1136	0.17	9.23	1606	0.16	
trans-Verbenol	6.34	1140	0.57	9.50	1628	0.57	
meta-Mentha-4,6-							
dien-8-ol	6.39	1143	0.26	9.31	1613	0.29	
Unknown (m/z/19	bation						
109, 81 (39), 41 (38), 95 (24) 152 (1)]	6.47	1148	0.02				
Pinocamphone	6.50	1150	11v0.06 1ba	7.29	1457	0.05	
Unknown (m/z 97,			nymgnoa	CIDILI			
81 (96), 109 (80),			* **				
43 (53), 53 (40), 41 (36), 56 (29), 95	6.53	1152	0.05	7.49*	1472	0.06	
(25) 152 (1)]	72.22	20.22	72.22		Sind a militar	a Manager 2001	
Pinocarvone	6.62	1158	0.07	7.91	livinsp3	000N/ 0.04	
Borneol	6.66	1160	0.02	9.79	1652		
a-Phellandren-8-ol	6.72	1164	0.65	10.11	1678	0.65	
Umbellulone	6.83*	1171	0.25	8.95	1584	0.01	
Terpinen-4-al	6.83*	1171	[0.25]	8.57†	1554	[0.95]	
c/s-Sabinol	liviesaibal	ion/1171	[0.25]	10.83	1738	0.15	
para-Cymen-8-ol	7.01	1183	0.07	11.48	1794	0.07	
a-Terpineol	7.05	1185	0.17	9.77	1650	0.15	
Myrtenal	7.15	1191	11v6.62 11ba	8.67*	1562	0.19	
Myrtenol	7.19	1194		10.91	1745	living 0.42 Hon	
Verbenone a-Phellandrene	7.25* 7.25*	1198	(0.39)	9.58	1634 1752	0.02	
epoxide							
trans-Carveol	7.52	1216	0.10	11.36*	1783	0.12	
Carvone	7.82	1236	0.03	9.98*	1667	0.33	
3,5- Dimethoxytoluene	livi830 bal	1261	0.02	11.36*	1783	[0.12]	
Bornyl acetate	8.44	1278	0.27	8.28	1532	0.32	
Carvacrol	8.94	1312	0.03	15.40	2163	0.04	
n-Terpinyl acetate	9.40	1343	liv9/l8liba	Higgs 9.74	1648	0.10	
a-Copaene	9.74	1367	0.05	7.26	1455	0.06	
β-Bourbonene 1,5-diepi-β-	9.85 9.87	1375 1377	0.14	7.62 7.49*	1481 1472	livio.05 botio	

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meta-Mentha-4,6-							
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a-Copaene	9.74	1367	0.05	7.26	1455	0.06	
β-Bourbonene 1,5-diepi-β-	9.85 9.87	1375 1377	0.14	7.62 7.49*	1481 1472	livio.015 botio	

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