

GC-MS Profiling Analysis Prepared for Jade Bloom, Inc

Date: April 30, 2018
Sample: Myrrh
Type: Essential Oil
Source: *Commiphora myrrha*
Batch: 041843899

ANALYSIS SUMMARY

Identification	DB-5 (%)	DB-WAX (%)	Classe
α -Pinene	0.02	0.02	Monoterpene
Camphene	tr	tr	Monoterpene
β -Pinene	tr*	tr	Monoterpene
Sabinene	[tr]*		Monoterpene
Myrcene	0.01	0.01	Monoterpene
Limonene	0.02	0.02	Monoterpene
(Z)- β -Ocimene	tr	tr	Monoterpene
(E)- β -Ocimene	0.18	0.20	Monoterpene
Terpinolene	tr	tr	Monoterpene
Bornyl acetate	0.01	0.10*	Monoterpenic ester
δ -Elemene isomer	0.02	0.04	Sesquiterpene
δ -Elemene	1.07	1.08	Sesquiterpene
α -Cubebene	0.04	0.04	Sesquiterpene
α -Ylangene	0.02	0.07	Sesquiterpene
α -Copaene	0.13	0.13	Sesquiterpene
β -Bourbonene	0.31	0.37	Sesquiterpene
<i>cis</i> - β -Elemene	0.12*	[0.10]*	Sesquiterpene
1,5-diepi- β -Bourbonene	[0.12]*	0.03	Sesquiterpene
β -Elemene	4.16	4.86*	Sesquiterpene
β -Caryophyllene	0.48	[4.86]*	Sesquiterpene
<i>cis</i> - α -Bergamotene	0.35	0.45	Sesquiterpene
β -Copaene	0.12	0.08	Sesquiterpene
γ -Elemene	0.72	0.80	Sesquiterpene
Isogermacrene D	0.12	0.14	Sesquiterpene
α -Humulene	0.19	0.23*	Sesquiterpene
4,5-diepi-Aristolochene	0.03	0.17*	Sesquiterpene
Unknown	0.04	[0.17]*	Sesquiterpene
Selina-4,11-diene	0.19*	[0.17]*	Sesquiterpene
<i>trans</i> -Cadinane-1(6),4-diene	[0.19]*	[0.23]*	Sesquiterpene
γ -Murolene	0.09	0.05	Sesquiterpene
α -Amorphene	0.80*	0.18	Sesquiterpene
Germacrene D	[0.80]*	0.90	Sesquiterpene
β -Selinene	0.85	0.62	Sesquiterpene
α -Selinene	0.63*	0.66*	Sesquiterpene
Bicyclogermacrene	[0.63]*	0.05	Sesquiterpene
Curzerene	21.50	23.17	Sesquiterpenic ether
ϵ -Amorphene	0.23	0.09	Sesquiterpene
δ -Amorphene	0.42	[0.66]*	Sesquiterpene
γ -Cadinene	0.51	0.59	Sesquiterpene
7-epi- α -Selinene	0.12	0.28*	Sesquiterpene
δ -Cadinene	0.33	[0.28]*	Sesquiterpene
Selina-4(15),7(11)-diene	0.13	0.25*	Sesquiterpene
Unknown	0.08	[0.25]*	Sesquiterpene
Selina-3,7(11)-diene	0.20	0.04	Sesquiterpene
α -Elemol	0.25	0.48*	Sesquiterpenic alcohol
Germacrene B	2.46	2.63	Sesquiterpene
Furanoedesma-1,4-diene	0.48	1.78*	Sesquiterpenic ether
Viridiflorol	0.03	0.18	Sesquiterpenic alcohol

β -Elemenone	0.66	[0.48]*	Sesquiterpenic ketone
Selin-6-en-4 α -ol	0.16	0.46	Sesquiterpenic alcohol
Furanoeudesma-1,3-diene	22.48*	25.30	Sesquiterpenic ether
γ -Eudesmol	[22.48]*	5.52*	Sesquiterpenic alcohol
Lindestrene	7.98	7.19	Sesquiterpenic ether
τ -Muurolol	1.31*	0.54	Sesquiterpenic alcohol
τ -Cadinol	[1.31]*	[5.52]*	Sesquiterpenic alcohol
α -Eudesmol	0.77	0.71	Sesquiterpenic alcohol
Isofuranogermacrene	1.06*		Sesquiterpenic ether
Furanodiene	[1.06]*		Sesquiterpenic ether
α -Elemyl acetate	1.33	[1.78]*	Sesquiterpenic ester
Methoxyfuranodiene analog	5.99	[5.52]*	Sesquiterpenic ether
Germacrene	0.45	0.94	Sesquiterpenic ketone
2-Methoxyfuranodiene	4.11	4.46	Sesquiterpenic ether
2-Acetoxyfuranodiene	1.95	1.79	Sesquiterpenic ester
Unknown	0.29	0.27	Unknown
Cembrenol	0.05	0.34	Diterpenic alcohol
Serratol	0.01	0.05	Diterpenic alcohol
Total identified	85.55%	88.08%	

*: 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.

Note: no correction factor was applied

PHYSICOCHEMICAL DATA

Physical aspect: Yellow viscous liquid

Refractive index: 1.5265 \pm 0.0003 (20 °C)

CONCLUSION

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



