Analysis Vetiver, Vintage Essential Oil

Laboratoire PhytoChemia





CERTIFICATE OF ANALYSIS - GC PROFILING

SAMPLEIDENTIFICATION living libotions

Internal code: 18125-FSE18-1-CC

Customer identification: Vetiver - India - V\$170818

Type: Essential oil

Source: Vetiveria zizanioides ct. India

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 validated by GC-MS.

Analyst: Benoit Roger, Ph. D.

Analysis date: September 27, 2018

Checked and approved by:

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ANALYSIS SUMMARY

Identification		DB-5 (%)	DB-WAX (%)	Monoterpene
Limonene living lipotto		W tr	tr	
a-Cubebene	****	0.03	0.03	Sesquiterpene
α-Ylangene		0.11	0.08	Sesquiterpene
2-epi-a-Funebrene		tr	tr	Sesquiterpene
Unknown		0.03		Norsesquiterpene
β-Funebrene		0.11	0.10	Sesquiterpene
B-Caryophyllene		0.50	0.50	Sesquiterpene
Unknown		0.33	1 2000	Sesquiterpene
6,9-Gualadiene		living abotio	0.13	Sesquiterpene
Khusimene		1,465	1.40*	Sesquiterpene
Prezizaene		[1.46]*	[1.40]*	Sesquiterpene
(E)-isoeugenol		0.34	0.19	Phenylpropanoid
Patchoulene analog I		0.33	0.27	Sesquiterpene
Unknown		0.22	37.000.7	Sesquiterpene
Unknown		0.10		Sesquiterpene
		0.26		Sesquiterpene
y-Muurolerie vinglibation		1.51	2.96*	Sesquiterpene
a-Amorphene		1.54	[2.96]*	Sesquiterpene
a-Vetispirene		0.55	0.51	Sesquiterpene
β-Vetispirene		0.65	0.66	Sesquiterpene
cis-Eudesma-6,11-diene		A STATE OF THE PARTY OF THE PAR	A STATE OF THE PARTY OF THE PAR	Sesquiterpene
v-Amorphene		[0.95]*	0.33	Sesquiterpene
δ-Selinene		[0.95]*	[2.96]*	Sesquiterpene
4-epi-cis-Dihydroagarofuran		2.73	2.37	Sesquiterpenic ether
epi-Cubebol		0.09	0.10	Sesquiterpenic alcohol
Eudesma-2,4(15),11-triene		0.22	0.25	Sesquiterpene
δ-Amorphene		0.51	0.43	livisequiterpene
o-Amorphene β-Dihydroagarofuran		0.18	0.18*	Sesquiterpenic ether
Eremophila-1(10),7(11)-diene		1.04*	1.03*	Sesquiterpene
y-Cadinene		[1.04]*	[0.18]*	Sesquiterpene
Spirovetiva-1(10),7(11)-diene		[1.04]*	[1.03]*	Sesquiterpene
trans-Calamenene Irring ibotion			0.14	
5-Cadinene		0.84*	0.14	Sesquiterpene
Zonarene	****	[0.84]*	0.49	Sesquiterpene
		0.22	0.03	Sesquiterpene
y-Vetivenene 11,12,13-trinor-trans-Eudesm-5-en-7-		0.22 liv	inglibation.	Sesquiterpene
one		0.14	****	Terpenic ketone liberton
a-Calacorene		1.17*	0.87*	Sesquiterpene ****
α-Agarofuran		[1.17]*	0.68	Sesquiterpenic ether
β-Vetivenene		1.44	1.31	Sesquiterpene
a-Elemol		0.94	1.02	Sesquiterpenic alcohol
cis-Eudesm-6-en-11-ol		1.74*	0.000	Sesquiterpenic alcohol
Furopelargone isomerying libotion		[1.74]*	0.66	Sesquiterpenic ketone
Unknown		0.70	V-11-4-1	Oxygenated sesquiterpene
Jnknown		0.72	[0.87]*	Sesquiterpene
Unknown		0.49 liv	inglib@35pru	Oxygenated sesquiterpene
Khusimone?		0.30	The second second	Norsesquiterpenic ketone
10-epi-y-Eudesmol		8.46*	6.95	Sesquiterpenic alcohol



Plus que des analyses... des conseils

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PHYSICOCHEMICAL DATA

Physical aspect: Bright green viscous liquid Refractive Index: 1.5160 ± 0.0003 (20 °C)

CONCLUSION

This sample contains various compounds (valerianol, 10-epi-y-eudesmol, agarofurans...) that we do not typically observe in vetiver oils in such high concentrations; this may be due to a peculiar profile related to specific growing or distillation conditions.

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