



GC-MS Profiling Analysis Prepared for Jade Bloom, Inc

Date: September 20, 2018

Sample: Copaiba

Type: Essential Oil

Source: *Copaifera officinalis*

Batch: 70454

Peak	Compound	RT	Area Sum %
1	Limonene	15.753	0.17
2	(Z)- β -Ocimene	16.736	0.11
3	δ -Elemene	40.497	0.51
4	α -Cubebene	41.448	0.85
5	Cyclosativene I	42.281	0.04
6	Cyclosativene II	42.485	0.04
7	α -Ylangene	43.032	0.09
8	α -Copaene	43.374	4.55
9	β -Cubebene	44.657	0.46
10	β -Elemene	44.872	1.76
11	α -Gurjunene	45.958	0.04
12	β -Caryophyllene	46.694	43.42
13	β -Copaene	47.495	0.38
14	γ -Elemene	48.145	2.5
15	trans- α -Bergamotene	48.408	5.09
16	Sesquisabinene	49.027	0.27
17	α -Humulene	49.288	4.99
18	Alloaromadendrene	49.836	0.31
19	cis-Muurolo-4(15),5-diene	50.082	0.17
20	(E)- β -Farnesene	50.467	0.16
21	trans-Cadina-1(6),4-diene	51.105	0.3
22	γ -Muurolole	51.409	1.35
23	Germacrene D	51.515	10.98
24	β -Selinene	51.808	0.89
25	unknown	52.087	0.82
26	Viridiflorene	52.71	1.75
27	α -Muurolole	53.249	1.43
28	unknown	53.772	0.73
29	β -Bisabolene	54.156	2.66
30	δ -Cadinene	55.027	3.13
31	trans-Cadina-1,4-diene	55.534	0.49
32	(E)- γ -Bisabolene	55.939	0.44
33	α -Calacorene	56.23	0.14
34	(E)- α -Bisabolene	56.771	0.3
35	Germacrene B	57.055	2.41
36	Maaliol	57.756	0.18
37	Caryophyllenyl alcohol	57.951	0.21
38	Caryophyllene oxide	59.051	0.28
39	Viridiflorol	59.582	0.17
40	Globulol	59.84	0.16
41	Ledol	60.449	0.2
42	1-epi-Cubenol	61.4	0.73
43	10-Di-epi-Cubenol	62.19	0.18
44	unknown	62.325	0.11
45	T-Cadinol	62.777	0.77

46	α -Muurolol	62.951	0.43
47	Cubenol	63.079	0.2
48	T-Muurolol	63.187	0.66
49	α -Cadinol	63.351	0.1
50	unknown	63.774	0.08
51	α -Bisabolol	64.204	0.27
52	cis-3,14-Clerodadien-13-ol	67.971	0.17
53	Manool	68.631	0.11
54	Kolavelool	68.736	0.57
55	Linoleic acid	69.167	0.03
56	unknown	69.595	0.01
57	Oleic acid	69.737	0.05
58	unknown	69.977	0.01
59	unknown	70.077	0.01
60	3- α -Hydroxymanool	70.284	0.15
61	Copalol	70.442	0.05
62	unknown	70.515	0.05
63	Kolavenol	70.619	0.04
64	unknown	70.797	0.09
65	unknown	71.084	0.05
66	unknown	71.419	0.08
67	unknown	74.691	0.07
	Total identified		97.89



