



GC/MS BATCH NUMBER: BO0100

ESSENTIAL OIL: BUDDHA WOOD
BOTANICAL NAME: EREMOPHILLIA MITCHELLI
ORIGIN: AUSTRALIA

KEY CONSTITUENTS PRESENT IN THIS BATCH OF BUDDHA WOOD OIL	%
EREMOPHILONE	34.3
2-HYDROXYEREMOPHILONE	24.3
8- HYDROXYDIHYDROEREMOPHILONE	14.2
9-HYDROXY-1,7(11),9- EREMOPHILATRIEN-8-ONE	6.3
8-HYDROXY-1,11- EREMOPHILADIEN-9-ONE	1.3

Comments from Robert Tisserand: The sweet-woody odor quality is very good, and the analysis looks fine. Buddha wood oil contains a number of heavier compounds that are difficult to identify.

Date : August 10, 2016

SAMPLE IDENTIFICATION

Internal code : 16G26-PTH1-1-DM

Customer identification : Buddha Wood Oil - Australia - BO010065R

Type : Essential oil

Source : *Eremophillia mitchelli*

Customer : Plant Therapy

ANALYSIS

Method : PC-PA-001-15E06, "Analysis of the composition of a liquid essential oil by GC-FID" (in French).

Analyst : Sylvain Mercier, M. Sc., chimiste

Analysis date : 2016-08-09

Checked and approved by :

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

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IDENTIFIED COMPOUNDS

Identification	Column: BP5			Column: WAX			Molecular Class
	R.T.	R.I.	%	%	R.I.	R.T.	
Unknown (m/z = 111, 126 (62), 41 (47), 69 (44), 179 (28), 123 (28)... 194 (17)...) 4,5-diepi-Aristolochene	23.45	1445	0.10				
	24.22	1454	0.16	0.22	1597	10.48*	Sesquiterpene
γ -Selinene	24.67	1460	0.07	[0.22]	1597	10.48*	Sesquiterpene
β -Selinene	25.82*	1474	1.07	1.05	1627	11.53*	Sesquiterpene
Eremophilene	25.82*	1474	[1.07]	[1.05]	1627	11.53*	Sesquiterpene
α -Selinene	26.38	1480	0.20	0.20	1635	11.89	Sesquiterpene
Nootkatene	27.13	1489	0.13	0.14	1694	14.56	Sesquiterpene
γ -Vetivenene	28.91	1512	0.03	0.02	1724	15.97	Sesquiterpene
β -Vetivenene	30.62	1535	0.06	0.07	1741	16.98	Sesquiterpene
Unknown (m/z = 96, 68 (95), 206 (91), 109 (53), 67 (49))	33.25	1571	0.16				
Unknown (m/z = 43, 81 (100), 135 (77), 204 (72), 67 (70), 71 (68), 189 (63), 207 (62), 95 (61)... 222 (5))	35.97	1613	1.12	1.04	2021	34.78	Oxygenated sesquiterp.
Unknown (m/z = 151, 109 (32), 67 (23), 95 (18), 41 (17)... 220 (7))	37.55	1651	1.04				Oxygenated sesquiterp.
Unknown (m/z = 93, 108 (66), 109 (51), 91 (48), 107 (38)... 218 (21))	38.55	1675	3.55	3.57	2113	38.10	Oxygenated sesquiterp.
Eremophilone	40.94	1742	34.33	34.79	2181	40.08	Sesquiterp. ketone
8-Hydroxydihydroeremophilone	41.37	1756	14.24	14.31	2264	42.19	Sesquiterp. alcohol
8-Hydroxy-1,11-eremophiladien-9-one	41.51	1760	1.25	1.01	2276	42.49	Sesquiterp. alcohol
Unknown (m/z = 137, 234 (78), 191 (74), 109 (64), 163 (58), 41 (55), 91 (53))	41.67	1765	1.65				Sesquiterp. alcohol
Unknown (m/z = 234, 217 (46), 41 (27), 67 (26), 205 (23))	42.41	1790	1.50				Sesquiterp. alcohol
Unknown (m/z = 218, 161 (92), 147 (84), 191 (70), 234 (66), 91 (63))	42.67	1798	0.50				Sesquiterp. alcohol
2-Hydroxyeremophilone	43.98	1844	24.25	23.32	2328	43.68	Sesquiterp. alcohol
Unknown (m/z = 232, 91 (31), 217 (29), 77 (22), 231 (21), 215 (21))	44.00	1845	1.11	1.38	2364	44.46	Sesquiterp. alcohol

9-Hydroxy-1,7(11),9- eremophilatrien-8-one	44.97	1880	6.29	6.98	2451	46.29	Sesquiterp. alcohol
Total identified			82.08%	82.11%			

*: Two or more compounds are coeluting on this column

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

Note: no correction factor was applied

OTHER DATA

Physical aspect : Bright orange liquid

Refractive index : 1.5330 ± 0.0003 (20 °C)

CONCLUSION

No adulterant, contaminant or diluent were detected using this method.



