

ANALYSIS Tarragon Esssential Oil

Laboratoire
PhytoChemia



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Date : July 14, 2017

SAMPLE IDENTIFICATION

Internal code : 17G04-FSE16-1-DM
Customer Identification : Tarragon - France - HEL15G816
Type : Essential oil
Source : Artemisia dracunculus
Customer : Flowers Shining Everywhere Inc.



ANALYSIS



Method : PC-PA-001-15E06, "Analysis of the composition of a liquid essential oil by GC-FID" (in French).
Analyst : Benoit Roger Ph. D.
Analysis date : 2017-07-13

Checked and approved by :



Alexis St-Gelais

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



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Essential oil, *Artemisia phoenicea*
Internal Code: 17604-FSE16-1-OM

Customer Identification:
Tarragon - France - HEL150816

Report prepared for
Flowers Shining Everywhere Inc.

Spathulenol	33.94	1575	0.18	0.18	2024	35.63	Sesquiterp. alcohol
(E)-p-Methoxycinnamaldehyde	34.85	1587	0.05				Phenylpropanoid
Total identified			98.84%	98.95%			

+: 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 : Clear liquid

Refractive index : 1.5078 ± 0.0003 (20 °C)

CONCLUSION

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

IDENTIFIED COMPOUNDS

Identification	Column: BP5			Column: WAX			Molecular Class
	R.T.	R.I.	%	%	R.I.	R.T.	
2-Ethylfuran	0.83	695	0.01	0.01	823	0.68	Furan
1,3-Octadiene	1.91	822	0.04				Alkene
(2E)-Hexenal	2.47	864	0.02				Aliphatic aldehyde
cis-Hex-3-en-1-ol	2.49	866	0.04	0.02	1337	5.32	Aliphatic alcohol
Hexanol	2.73	884	0.02	0.02	1294	4.69	Aliphatic alcohol
α -Thujene	3.33	923	0.06	1.16	943	1.02*	Monoterpene
α -Pinene	3.43	930	1.11	[1.16]	943	1.02*	Monoterpene
Camphene	3.72	947	0.06	0.06	999	1.27	Monoterpene
Sabinene	4.16	973	4.45	4.42	1060	1.76	Monoterpene
β -Pinene	4.22	976	0.16	0.14	1042	1.59	Monoterpene
Myrcene	4.49	993	0.73	0.68	1114	2.28	Monoterpene
α -Phellandrene	4.77	1008	0.02	0.01	1107	2.21	Monoterpene
α -Terpinene	4.96	1019	0.15	0.16	1122	2.36	Monoterpene
para-Cymene	5.15	1029	0.15	6.53	1202	3.39*	Monoterpene
Limonene	5.20	1032	3.32	3.27	1141	2.60	Monoterpene
1,8-Cineole	5.25	1035	0.01	0.03	1151	2.74	Monoterp. ether
cis- β -Ocimene	5.39	1042	5.69	5.94	1186	3.18*	Monoterpene
trans- β -Ocimene	5.57	1053	6.43	[6.53]	1202	3.39*	Monoterpene
γ -Terpinene	5.74	1062	0.31	[5.94]	1186	3.18*	Monoterpene
cis-Sabinene hydrate	6.06	1079	0.03	0.05	1421	6.61	Monoterp. alcohol
Terpinolene	6.21	1087	0.11	0.11	1222	3.64	Monoterpene
Linalool	6.69	1109	0.13	0.14	1487	18.08	Monoterp. alcohol
allo-Ocimene	7.23	1129	0.11	0.10	1318	5.03	Monoterpene
neo-allo-Ocimene	7.52	1139	0.01	0.02	1341	5.37	Monoterpene
para-Vinylanisole	8.09	1160	0.01				Phenylpropanoid
Menthol	8.81	1187	0.63	68.77	1587	11.06*	Monoterp. alcohol
Methylchavicol	9.82*	1214	68.12	[68.77]	1587	11.06*	Phenylpropanoid
α -Terpineol	9.82*	1214	[68.12]	0.27	1624	12.36*	Monoterp. alcohol
Citronellol	10.82	1237	0.05	0.06	1704	16.21	Monoterp. alcohol
Neral	11.19	1245	0.04	0.03	1597	11.43	Monoterp. aldehyde
Geraniol	11.86	1259	0.10	0.10	1780	20.53	Monoterp. alcohol
Geranial	12.69	1278	0.05	0.06	1652	13.53	Monoterp. aldehyde
Bornyl acetate	12.95	1284	0.11	0.05	1500	8.38	Monoterp. ester
Citronellyl acetate	17.28	1355	0.21	0.21	1601	11.56	Monoterp. ester
Eugenol	17.86	1363	0.07	0.05	2054	36.90	Phenylpropanoid
Geranyl acetate	19.41	1387	1.09	1.06	1690	15.49	Monoterp. ester
Methyl (E)-cinnamate	19.92	1395	0.09	0.09	1955	32.53	Phenylpropanoid ester
β -Caryophyllene	20.63	1404	0.12	0.70	1527	9.00	Sesquiterpene
Methyleugenol	21.79	1418	4.50	4.42	1932	30.89	Phenylpropanoid
Germacrene D	25.65	1465	0.20	[0.27]	1624	12.36*	Sesquiterpene
Bicyclgermacrene	26.89	1480	0.04	0.03	1646	13.24	Sesquiterpene

Essential oil, *Artemisia dracunculifolia*
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