

Cumin Essential Oil

Laboratoire
PhytoChemia





SAMPLE IDENTIFICATION

Internal code : 17F08-FSE27-1-DM

Customer Identification : Cumin CO2 - Lot #4118

Type : Essential oil

Source : *Cuminum cyminum*

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).

• Identifications double-checked by GC-MS

Analyst : Sylvain Mercier, M. Sc., chimiste

Analysis date : 2017-06-21



Checked and approved by :

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



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IDENTIFIED COMPOUNDS

livinglibotionv

Identification	Column: BP5			Column: WAX			Molecular Class
	R.T.	R.I.	%	%	R.I.	R.T.	
α -Thujene	3.32	923	0.09	0.14	954	1.07	Monoterpene
α -Pinene	3.42	929	0.38	0.23	945	1.03	Monoterpene
Camphene	3.71	946	0.04	0.02	1001	1.28	Monoterpene
β -Pinene	4.21	976	6.33	5.12	1044	1.61	Monoterpene
Myrcene	4.48	992	0.30	0.29	1117	2.30*	Monoterpene
α -Phellandrene	4.76*	1008	0.14	0.08	1108	2.22	Monoterpene
Δ^3 -Carene	4.76*	1008	[0.14]	0.03	1090	2.05	Monoterpene
α -Terpinene	4.95	1018	0.03	[0.29]	1117	2.30*	Monoterpene
Carvomenthene	5.04	1023	0.02	0.02	1081	1.97	Monoterpene
para-Cymene	5.14	1029	4.56	3.75	1207	3.46	Monoterpene
Limonene	5.18	1031	0.22	0.14	1141	2.61	Monoterpene
β -Phellandrene	5.21	1032	0.12	0.18	1146	2.67*	Monoterpene
γ -Terpinene	5.24	1034	0.06	[0.18]	1146	2.67*	Monoterp. ether
Terpinolene	5.74	1062	6.27	5.03	1188	3.22	Monoterpene
Terpinolene	6.20	1087	0.02	0.04	1224	3.67	Monoterpene
Linalool	6.67	1108	0.02	0.03	1489	8.12*	Monoterp. alcohol
endo-Fenchol	7.12	1125	0.02	0.15	1531	9.10*	Monoterp. alcohol
cis-para-Menth-2-en-1-ol	7.21	1128	0.02	[0.03]	1489	8.12*	Monoterp. alcohol
trans-Pinocarveol	7.59	1142	0.02	0.04	1567	10.32	Monoterp. alcohol
Nopinone	7.64	1144	0.01				Monoterp. ketone
Camphene hydrate	8.02	1158	0.02	[0.15]	1531	9.10*	Monoterp. alcohol
Terpinen-4-ol	8.77	1185	0.14	[0.15]	1531	9.10*	Monoterp. alcohol
α -Terpineol	9.32	1203	0.06	0.19	1620	12.26*	Monoterp. alcohol
Cuminal	11.39*	1249	9.58	7.68	1675	14.73*	Monoterp. aldehyde
para-Cumenol	11.39*	1249	[9.58]				Monoterp. alcohol
Phellandral	12.84	1281	0.02	[0.19]	1620	12.26*	Monoterp. aldehyde
α -Terpinen-7-ol	13.35	1293	0.66	0.68	1680	14.99	Monoterp. aldehyde
γ -Terpinen-7-ol	13.76	1301	9.46	7.74	1692	15.61	Monoterp. aldehyde
Carvacrol	15.15	1322	0.04	0.05	2127	39.26	Monoterp. alcohol
4-Hydroxycryptone	16.20	1338	0.03				Monoterp. alcohol
para-Mentha-1,4-dien-7-ol	16.56	1344	0.07	0.06	1962	32.89	Monoterp. alcohol
Daucene	17.89	1364	0.04	0.07	1439	6.94	Sesquiterpene
trans- α -Bergamotene	22.15	1423	0.05	[0.15]	1531	9.10*	Sesquiterpene
trans- β -Farnesene	24.50	1451	0.20	0.15	1609	11.85	Sesquiterpene
10-epi- β -Acoradiene	25.09	1458	0.13				Sesquiterpene
β -Bisabolene	28.53	1499	0.05	[7.68]	1675	14.73*	Sesquiterpene
Caryophyllene oxide	33.76	1572	0.10	0.07	1853	25.32	Sesquiterp. ether
Carotol	35.16	1592	0.46	0.31	1914	29.60	Sesquiterp. alcohol
Daucol	37.48	1642	0.02				Sesquiterp. alcohol
Unknown (m/z = 83, 55 (90), 251 (82), 119 (41), 137	54.78	2297	8.07				

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Plus que des analyses... des conseils

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