

Analysis Basil Essential Oil

Laboratoire
PhytoChemia





SAMPLE IDENTIFICATION

Internal code : 17G04-FSE1-1-DM

Customer Identification : Basil Linalool - Bulgaria - 1463

Type : Essential oil

Source : Ocimum basilicum

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 : 2017-07-06



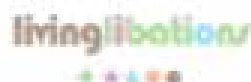
Checked and approved by :

Alexis St-Gelais, M. Sc., chimiste



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β -Elemene	19.02	1381	1.51	[1.95]	1529	9.06*	Sesquiterpene
Geranyl acetate	19.40	1387	0.17	0.16	1690	15.30	Monoterp. ester
cis- α -Bergamotene	20.65*	1405	0.27	0.08	1512	8.66	Sesquiterpene
β -Caryophyllene*	20.65*	1405	[0.27]	0.13	1523	8.91	Sesquiterpene
β -Gurjunene	21.28	1412	0.29	0.32	1518	8.79	Sesquiterpene
trans- α -Bergamotene	22.39	1426	7.73	7.41	1537	9.27	Sesquiterpene
cis- β -Farnesene	22.98	1433	0.12	0.67	1579	10.76*	Sesquiterpene
α -Humulene	23.48	1439	0.50	[0.67]	1579	10.76*	Sesquiterpene
Dauca-5,8-diene	24.15	1447	0.43	0.49	1591	11.18	Sesquiterpene
trans- β -Farnesene	24.59	1452	0.18	[0.58]	1614	12.02*	Sesquiterpene
Germacrene D	25.72*	1466	2.01	[2.87]	1627	12.47*	Sesquiterpene
β -Selinene	25.96	1468	0.02	[2.87]	1627	12.47*	Sesquiterpene
Viridiflorene	26.36	1473	0.60	[0.58]	1614	12.02*	Sesquiterpene
Bicyclogermacrene	26.93	1480	0.54	0.45	1648	13.32	Sesquiterpene
δ -Guaiane	27.63	1488	1.02	1.04	1639	12.94	Sesquiterpene
γ -Cadinene	28.84	1504	2.53	2.67	1674	14.66*	Sesquiterpene
δ -Cadinene	29.24	1509	0.03	[2.67]	1674	14.66*	Sesquiterpene
trans-Calamenene	29.44	1512	0.27	0.22	1735	17.78	Sesquiterpene
α -Cadinene	30.28	1524	0.21	0.22	1697	15.88	Sesquiterpene
Maaliol	33.14	1563	0.45	0.54	1891	27.99	Sesquiterp. alcohol
(E)-Nerolidol	33.90*	1574	0.23	0.10	1992	34.19	Sesquiterp. alcohol
Spathulenol	33.90*	1574	[0.23]	0.10	2026	35.67	Sesquiterp. alcohol
1,10-diethyl-Cubenol	36.06	1607	0.71	0.73	1952	32.32	Sesquiterp. alcohol
γ -Cadinol	37.62	1645	4.03	4.18	2074	37.62	Sesquiterp. alcohol
β -Eudesmol	37.89	1652	0.10	0.10	2114	38.85	Sesquiterp. alcohol
α -Cadinol	38.09	1657	0.22	0.18	2128	39.30	Sesquiterp. alcohol
Total identified			97.28%	97.67%			

*: 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 : Light yellow liquid

Refractive index : 1.4695 \pm 0.0003 (20 °C)

CONCLUSION

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

