



PLANT THERAPY
100% PURE ESSENTIAL OILS

GC/MS BATCH NUMBER: CK0104

ESSENTIAL OIL: CORIANDER
BOTANICAL NAME: CORIANDRUM SATIVUM
ORIGIN: RUSSIA

KEY CONSTITUENTS PRESENT IN THIS BATCH OF CORIANDER OIL	%
LINALOOL	72.9
α -PINENE	5.6
CAMPHOR	5.0
γ -TERPINENE	3.8
GERANYL ACETATE	3.3
LIMONENE	2.2
GERANIOL	1.7

Comments from Robert Tisserand: Excellent fresh, sweet-oily odor profile. Eight of nine key ISO constituents are in range with one marginal - not a concern.

Date : February 2, 2017

SAMPLE IDENTIFICATION

Internal code : 17A23-PTH8-1-SM

Customer identification : Coriander - CK010468R

Type : Essential Oil

Source : *Coriandrum sativum*

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 : 2017-01-29

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.	
Tricyclene	3.15	915	0.03	0.04	919	1.13	Monoterpene
α -Thujene	3.24	921	0.04	0.20	956	1.29	Monoterpene
α -Pinene	3.35	928	5.60	5.52	947	1.25	Monoterpene
Camphene	3.63	945	0.94	0.96	993	1.56	Monoterpene
Sabinene	4.05	972	0.17	0.17	1065	2.11	Monoterpene
β -Pinene	4.11	976	0.42	0.42	1043	1.93	Monoterpene
Myrcene	4.40	993	0.92	0.90	1118	2.70	Monoterpene
6-Methyl-5-hepten-2-one	4.49	999	0.01	0.01	1280	5.02	Aliphatic ketone
α -Phellandrene	4.67*	1007	0.02	0.02	1111	2.61	Monoterpene
Δ 3-Carene	4.67*	1007	[0.02]	0.01	1097	2.42	Monoterpene
α -Terpinene	4.86	1017	0.07	0.06	1125	2.79	Monoterpene
para-Cymene	5.06	1027	0.71	0.77	1211	3.98	Monoterpene
Limonene	5.09	1029	2.15	2.10	1143	3.04	Monoterpene
β -Phellandrene	5.12	1030	0.12	0.16	1149	3.12*	Monoterpene
1,8-Cineole	5.15	1032	0.03	[0.16]	1149	3.12*	Monoterp. ether
cis- β -Ocimene	5.27	1038	0.02	3.85	1193	3.71*	Monoterpene
trans- β -Ocimene	5.45	1048	0.03	0.03	1204	3.86	Monoterpene
γ -Terpinene	5.65	1058	3.82	[3.85]	1193	3.71*	Monoterpene
cis-Linalool oxide (fur.)	5.93	1073	0.11	0.11	1381	6.63	Monoterp. alcohol
cis-Sabinene hydrate	6.01	1077	0.03	0.03	1415	7.38	Monoterp. alcohol
Terpinolene	6.11	1082	0.52	0.51	1226	4.19	Monoterpene
trans-Linalool oxide (fur.)	6.25	1089	0.09	0.12	1407	7.17	Monoterp. alcohol
Linalool	6.86	1114	72.92	73.00	1505	9.75	Monoterp. alcohol
Camphor	7.72	1146	5.03	4.73	1426	7.64	Monoterp. ketone
Borneol	8.58	1177	0.16	0.12	1617	14.42	Monoterp. alcohol
Terpinen-4-ol	8.70	1182	0.15	0.13	1529	10.65	Monoterp. alcohol
α -Terpineol	9.37	1203	0.30	0.27	1622	14.66	Monoterp. alcohol
Nerol	10.52	1228	0.02	0.02	1729	20.86	Monoterp. alcohol
Citronellol	10.77	1234	0.05	0.10	1706	19.34	Monoterp. alcohol
Geraniol	11.85	1258	1.65	1.63	1783	24.47	Monoterp. alcohol
Geranial	12.51	1273	0.02	0.02	1657	16.49	Monoterp. aldehyde
Myrtenyl acetate	14.96	1317	0.10	0.09	1604	13.68	Monoterp. ester
Geranyl acetate	19.16	1380	3.28	3.08	1691	18.35	Monoterp. ester
β -Caryophyllene	20.20	1396	0.06	0.06	1518	10.23	Sesquiterpene
Total identified			99.59%	99.24%			

*: 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 : 1.4635 ± 0.0003 (20 °C)

CONCLUSION

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



