



GC/MS BATCH NUMBER: CX0101

ESSENTIAL OIL: CINNAMON CASSIA ORGANIC

BOTANICAL NAME: CINNAMOMUM CASSIA

ORIGIN: CHINA

KEY CONSTITUENTS PRESENT IN THIS BATCH OF CINNAMON CASSIA ORGANIC OIL	%
(E)-CINNAMALDEHYDE	85.1
E)-o-METHOXYCINNAMALDEHYDE	6.6

Date : July 17, 2017

SAMPLE IDENTIFICATION

Internal code : 17G14-PTH26-1-DM

Customer identification : Cassia Organic - China - CX010169R

Type : Essential oil

Source : *Cinnamomum cassia*

Customer : Plant Therapy

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 : 2017-07-17

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.	
Styrene	2.91	898	0.03	0.02	1181	3.12	Phenylpropanoid
Benzaldehyde	4.21	976	0.84	0.76	1429	6.74	Simple phenolic
para-Cymene	5.15	1029	0.02	0.02	1202	3.39	Monoterpene
Limonene	5.18	1031	0.01	0.01	1138	2.57	Monoterpene
Salicylaldehyde	5.69	1059	0.19	0.14	1569	10.38	Simple phenolic
Acetophenone	6.10	1081	0.05	0.07	1562	10.11	Simple phenolic
Phenylethyl alcohol	7.18	1127	0.82	0.91	1798	21.72	Simple phenolic
2-Methylbenzofuran	7.53	1140	0.05				Phenylpropanoid
Hydrocinnamaldehyde	8.49	1175	0.59				Phenylpropanoid
3-Methylbenzofuran	8.63	1180	0.15				Phenylpropanoid
Terpinen-4-ol	8.82	1187	0.02	0.08	1527	9.01*	Monoterp. alcohol
(Z)-Cinnamaldehyde	10.52	1230	0.41	0.37	1768	19.77	Phenylpropanoid
Hydrocinnamyl alcohol	11.19	1245	0.16	0.18	1953	32.41	Phenylpropanoid
o-Anisaldehyde	11.42	1250	0.76	0.73	1828	23.69	Simple phenolic
Phenylethyl acetate	11.96	1262	0.03	0.03	1735	17.80	Phenolic ester
(E)-Cinnamaldehyde	14.03	1305	85.05	85.55	1914	29.66	Phenylpropanoid
α-Ylangene	17.08	1352	0.03	0.04	1418	6.56	Sesquiterpene
α-Copaene	17.77	1362	0.37	0.42	1436	6.87	Sesquiterpene
Unknown (m/z = 91, 121 (75), 108 (64), 164 (43))	18.92	1380	0.31	0.28	2036	36.14*	Phenylpropanoid
β-Caryophyllene	20.65	1405	0.09	0.08	1518	8.79	Sesquiterpene
trans-α-Bergamotene	22.04	1421	0.03	[0.08]	1527	9.01*	Sesquiterpene
α-Humulene	23.33	1437	0.08	0.09	1595	11.36	Sesquiterpene
Coumarine	23.81	1443	0.71	6.73	2293	43.60*	Coumarin
(E)-Cinnamyl acetate	25.02	1457	0.28	[0.28]	2036	36.14*	Phenylpropanoid ester
γ-Murolene	25.56	1464	0.22	0.24	1608	11.81	Sesquiterpene
ar-Curcumene	26.49	1475	0.04	0.05	1705	16.28	Sesquiterpene
(E)-Cinnamic acid	27.45	1486	0.29	0.39	2714	52.03	Phenylpropanoid
α-Murolene	27.70	1489	0.12	0.12	1660	13.95	Sesquiterpene
γ-Cadinene	28.74	1502	0.06	0.48	1666	14.27*	Sesquiterpene
β-Bisabolene	28.91	1505	0.09	0.11	1649	13.37	Sesquiterpene
δ-Cadinene	29.41	1511	0.18	0.18	1673	14.64	Sesquiterpene
trans-γ-Bisabolene	30.29	1524	0.13	[0.48]	1666	14.27*	Sesquiterpene
(E)-o-Methoxycinnamaldehyde	32.63	1556	6.63	[6.73]	2293	43.60*	Phenylpropanoid
Spathulenol	33.88	1574	0.02	[0.28]	2036	36.14*	Sesquiterp. alcohol
Benzyl benzoate	42.27	1776	0.05	0.03	2487	47.74	Phenolic ester
Total identified			98.60%	97.83%			

*: 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

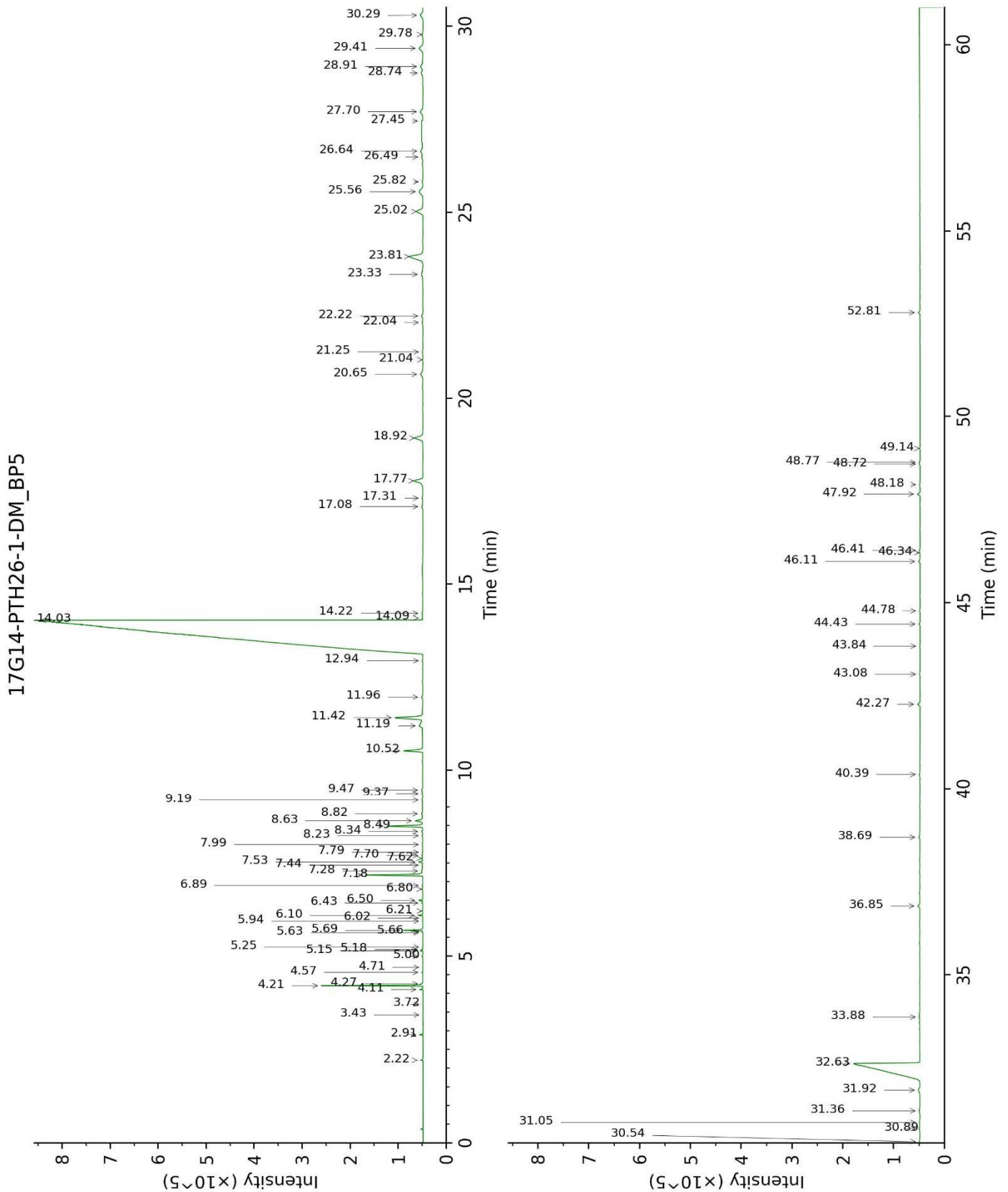
OTHER DATA

Physical aspect : Yellow liquid

Refractive index : 1.6095 ± 0.0003 (20 °C)

CONCLUSION

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



17G14-PTH26-1-DM_WAX

