



PLANT THERAPY
100% PURE ESSENTIAL OILS

GC/MS BATCH NUMBER: CH0102

ESSENTIAL OIL: CLOVE BUD ORGANIC
BOTANICAL NAME: SYZGIUM AROMATICUM
ORIGIN: SRI LANKA

KEY CONSTITUENTS PRESENT IN THIS BATCH OF CLOVE BUD ORGANIC OIL	%
Eugenol	80.22
Eugenyl acetate	11.10
β -Caryophyllene	6.70

Comments from Robert Tisserand: A rounded, rich clove bud oil which conform to the ISO Standard.

Date : October 22, 2015

SAMPLE IDENTIFICATION

Internal code : 15J15-PTH4-1-LC

Customer identification : Clove Bud organic - Sri Lanka - CH0101 + CH0102

Type : Essential Oil

Source : *Syzygium aromaticum*

Customer : Plant Therapy

ANALYSIS

Method : PC-PA-001-15E06, "Analysis of the composition of a liquid essential oil by GC-FID" (in French).

Analyst : Alexis St-Gelais, M. Sc.

Analysis date : 2015-10-16

IDENTIFIED COMPOUNDS

Identification	Column: BP5			Column: WAX			Molecular Class
	R.T.	R.I.	%	%	R.I.	R.T.	
Chavicol	11.19	1289	0.09	0.12	2264	43.35	Phenylpropanoid
α -Cubebene	13.28	1329	0.11	0.09	1418	6.59	Sesquiterpene
Eugenol	15.75	1372	80.22	80.45	2092	38.76	Phenylpropanoid
β -Caryophyllene	17.37	1401	6.70	6.40	1534	9.39	Sesquiterpene
Methyleugenol	18.40	1414	0.05	0.04	1962	33.35	Phenylpropanoid
α -Humulene	19.68	1431	0.50	0.54	1597	11.47	Sesquiterpene
γ -Muurolene	21.18	1451	0.03	0.02	1620	12.52	Sesquiterpene
δ -Cadinene	25.09	1502	0.12	0.20	1686	15.66	Sesquiterpene
<i>trans</i> -Calamenene	25.45	1506	0.09	0.09	1746	19.17	Sesquiterpene
Eugenyl acetate	27.66	1533	11.10	10.93	2188	41.48	Phenylpropanoid ester
Caryophyllene oxide	29.80	1558	0.44	0.40	1861	26.95	Sesquiterp. ether
Total identified			99.45%	99.28%			

*: 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 : 1.5355 ± 0.0003 (20 °C)

CONCLUSION

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

Checked and approved by :

Sylvain Mercier, M. Sc., chimiste 2014-005

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