



## GC/MS BATCH NUMBER: CG0101

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**ESSENTIAL OIL:** CLOVE BUD  
**BOTANICAL NAME:** SYZYGUIM AROMATICUM  
**ORIGIN:** SRI LANKA

KEY CONSTITUENTS PRESENT IN THIS BATCH OF CLOVE BUD OIL	%
EUGENOL	84.1
EUGENYL ACETATE	9.0
$\beta$ -CARYOPHYLLENE	6.1

**Date :** October 22, 2015

*SAMPLE IDENTIFICATION*

**Internal code :** 15J15-PTH5-1-LC

**Customer identification :** Clove Bud - Sri Lanka - CG0101

**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	0.06	0.07	2264	43.35	Phenylpropanoid
$\alpha$ -Cubebene	13.28	1329	0.03	0.03	1418	6.59	Sesquiterpene
Eugenol	15.77	1373	84.06	84.42	2092	38.77	Phenylpropanoid
$\beta$ -Caryophyllene	17.37	1401	6.12	5.85	1533	9.38	Sesquiterpene
$\alpha$ -Humulene	19.67	1431	0.43	0.43	1597	11.46	Sesquiterpene
$\delta$ -Cadinene	25.06	1502	0.05	0.03	1686	15.64	Sesquiterpene
Eugenyl acetate	27.59	1532	8.98	8.84	2188	41.47	Phenylpropanoid ester
Caryophyllene oxide	29.76	1558	0.13	0.09	1861	26.93	Sesquiterp. ether
<b>Total identified</b>			<b>99.86%</b>	<b>99.76%</b>			

\*: 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 :** 1.5375  $\pm$  0.0003 (20 °C)

### CONCLUSION

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

Checked and approved by :

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

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