

## GC-MS Profiling Analysis Prepared for Jade Bloom, Inc

**Date:** February 23, 2018  
**Sample:** Allspice  
**Type:** Essential Oil  
**Source:** *Pimenta officinalis*  
**Batch:** 69964

### ANALYSIS SUMMARY

Identification	DB-5 (%)	DB-WAX (%)	Classe
(3Z)-Hexenol	0.01	0.01	Aliphatic alcohol
Hexanol	tr	tr	Aliphatic alcohol
$\alpha$ -Thujene	0.04	0.04	Monoterpene
$\alpha$ -Pinene	0.07	0.07	Monoterpene
$\beta$ -Pinene	0.01	0.01	Monoterpene
Myrcene	0.07	0.07	Monoterpene
$\alpha$ -Phellandrene	0.17	0.17	Monoterpene
$\Delta^3$ -Carene	0.02	0.02	Monoterpene
$\alpha$ -Terpinene	0.03	0.04	Monoterpene
para-Cymene	0.17	0.18	Monoterpene
Limonene	0.48*	0.09	Monoterpene
1,8-Cineole	[0.48]*	0.41	Monoterpenic ether
(Z)- $\beta$ -Ocimene	0.02	0.02	Monoterpene
(E)- $\beta$ -Ocimene	0.29	0.30	Monoterpene
$\gamma$ -Terpinene	0.07	0.08	Monoterpene
Terpinolene	0.17	0.18	Monoterpene
trans-Linalool oxide (fur.)	0.02	0.03	Monoterpenic alcohol
Linalool	0.06	0.07	Monoterpenic alcohol
Terpinen-4-ol	0.10	0.12	Monoterpenic alcohol
para-Cymen-8-ol	0.02	0.02	Monoterpenic alcohol
$\alpha$ -Terpineol	0.09	0.09	Monoterpenic alcohol
Methylchavicol	0.01	1.31*	Phenylpropanoid
Geraniol	0.01	0.02	Monoterpenic alcohol
Chavicol	0.04	0.07	Phenylpropanoid
Eugenol	78.82	78.67	Phenylpropanoid
$\alpha$ -Copaene	[78.82]	0.04	Sesquiterpene
$\beta$ -Elemene	0.34	5.20*	Sesquiterpene
$\alpha$ -Gurjunene	0.25	0.24	Sesquiterpene
Methyleugenol	5.71	5.74	Phenylpropanoid
$\beta$ -Caryophyllene	4.92	[5.20]*	Sesquiterpene
$\beta$ -Copaene	0.03	0.02	Sesquiterpene
Aromadendrene	0.16*	0.09	Sesquiterpene
trans- $\alpha$ -Bergamotene	[0.16]*	[5.20]*	Sesquiterpene
$\alpha$ -Humulene	1.32	[1.31]*	Sesquiterpene
allo-Aromadendrene	0.51	0.47	Sesquiterpene
Selina-4,11-diene	0.34	0.32	Sesquiterpene
$\gamma$ -Muurolene	0.09	0.13	Sesquiterpene
$\beta$ -Selinene	0.74	0.77	Sesquiterpene
$\alpha$ -Amorphene	0.13	0.13	Sesquiterpene
$\alpha$ -Selinene	1.29*	0.97	Sesquiterpene
Viridiflorene	[1.29]*	0.34	Sesquiterpene
$\alpha$ -Muurolene	0.11	0.10	Sesquiterpene
$\gamma$ -Cadinene	0.12	0.13	Sesquiterpene
$\delta$ -Cadinene	0.42*	0.37	Sesquiterpene
trans-Calamenene	[0.42]*	0.03	Sesquiterpene
trans-Cadina-1,4-diene	0.02	0.02	Sesquiterpene
$\alpha$ -Cadinene	0.03	0.03	Sesquiterpene
$\alpha$ -Calacorene	0.02	0.03	Sesquiterpene

Spathulenol	0.03	0.04	Sesquiterpenic alcohol
Caryophyllene oxide	0.09	0.08	Sesquiterpenic ether
Globulol	0.19	0.17	Sesquiterpenic alcohol
Viridiflorol	0.10	0.11	Sesquiterpenic alcohol
Cubeban-11-ol	0.13	0.13	Sesquiterpenic alcohol
Eudesm-5-en-11-ol	0.11	0.09	Sesquiterpenic alcohol
Methoxyeugenol	0.03	0.03	Phenylpropanoid
Unknown	0.17	0.15	Oxygenated sesquiterpene
Rosifoliol	0.09	0.08	Sesquiterpenic alcohol
$\tau$ -Cadinol	0.13	0.13	Sesquiterpenic alcohol
$\tau$ -Muurolol	0.04	0.07	Sesquiterpenic alcohol
Selin-11-en-4 $\alpha$ -ol	0.43*	0.31	Sesquiterpenic alcohol
$\alpha$ -Cadinol	[0.43]*	0.10	Sesquiterpenic alcohol
<b>Total identified</b>	<b>98.72%</b>	<b>98.59%</b>	

\*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not taken account in the identified total

tr: The compound has been detected below 0.005% of total signal.

Note: no correction factor was applied



#### PHYSICOCHEMICAL DATA

**Physical aspect:** Light yellow liquid

**Refractive index:** 1.5323  $\pm$  0.0003 (20 °C)

#### CONCLUSION

No adulterant, contaminant or diluent has been detected using this method.

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