



Essential Validation Services



Sample:

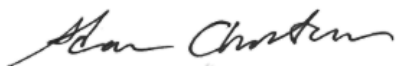
Client: | Floracopia
Sample: | Cardamom (*Elettaria cardamomum*)
Batch # | R000X2V18
Cas Number | 8000-66-6
Type: | Essential Oil

Conclusion:

- No adulterants, diluents, or contaminants were detected via this method.
- This oil meets the expected profile for genuine essential oil of Cardamom (*Elettaria cardamomum*).



X



Validated By:

Essential Validation Services

747 SW 2nd Ave, Gainesville, FL 32601

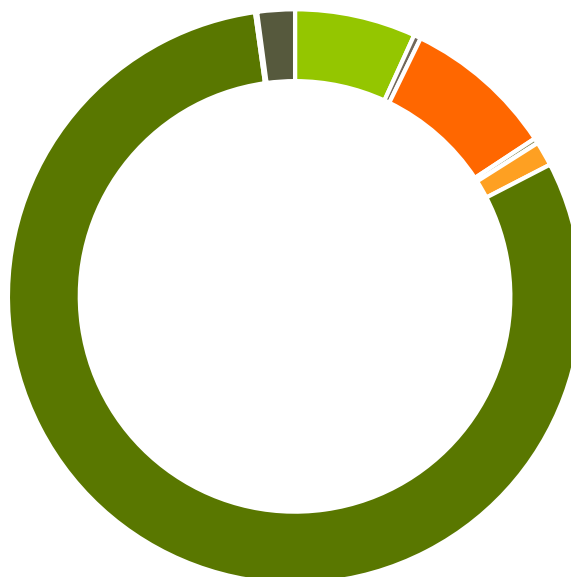
Phone: 317-361-5044 E-mail: Adam@essentialvalidationservices.com

Summary of Analyses

A fresh sample of Cardamom (*Elettaria cardamomum*) Essential Oil (10 uL in .5to.5 mL Hexane + ETOH) was prepared and analyzed via split injection GC/EI-MS.

Main Compounds	Percentages
1,8-Cineole (Co-Eluting)	42.20%
alpha-Terpinyl acetate	38.16%
alpha-Terpineol	3.60%
Geraniol (Co-Eluting)	3.43%
beta-Pinene	2.02%
Sabinene	1.64%
alpha-Pinene	1.46%
Bornyl acetate	0.73%
Terpinen-4-ol	0.61%
Myrcene	0.57%
Terpinolene	0.43%
Terpinolene	0.43%
gamma-Terpineol	0.39%

Monoterpenes	Sesquiterpenes	Monoterpenols	Sesquiterpenols	Ketones
6.81%	0.40%	8.52%	0.30%	0.00%
Esters	Ethers	Aldehydes	Phenols	Other
1.38%	80.36%	0.12%	0.00%	2.11%



- Monoterpenes ■ Sesquiterpenes ■ Monoterpenols
- Sesquiterpenols ■ Ketones ■ Esters
- Ethers ■ Phenols ■ Other

