

## Certificate of Analysis - Italian Bergamot Oil

**Sample:** Bergamot Oil

**Species:** *Citrus bergamia*

**Origin:** Calabria, Italy

MS Library/ID	FID%
alpha-thujene	0.29%
alpha-pinene	1.19%
camphene	0.03%
sabinene	1.03%
beta-pinene	6.36%
myrcene	0.96%
alpha-phellandrene/octanal	0.05%
alpha-terpinene	0.07%
p-cymene	0.57%
limonene	38.98%
(Z)-beta-ocimene	0.04%
(E)-beta-ocimene	0.19%
gamma-terpinene	6.57%
trans-sabinene hydrate	0.04%
terpinolene	0.23%
linalool	12.47%
terpinen-4-ol	0.04%
alpha-terpineol	0.12%
decanal	0.04%
n-octyl acetate	0.10%
nerol	0.06%
neral	0.17%

MS Library/ID	FID%
linalyl acetate	27.03%
geranial	0.30%
alpha-terpinyl acetate	0.14%
neryl acetate	0.43%
geranyl acetate	0.37%
decyl acetate	0.02%
trans-alpha-bergamotene	0.02%
beta-caryophyllene	0.30%
alpha-bergamotene	0.29%
trans-beta-farnesene	0.07%
germacrene D	0.03%
trans-alpha-bisabolene	0.03%
beta-bisabolene	0.42%
alpha-bisabolol	0.02%
nootkatone	0.05%
citriptene	0.11%
bergaptene	0.11%

The sample was analyzed with simultaneous MS and FID detection with 99.34% of the components identified. The composition of the sample corresponds to that expected for natural Italian bergamot oil. Odor quality is excellent. No contamination or adulteration or pesticide residues were detected.