AROMATICS DATA

GC-MS BATCH SUMMARY

Batch FRS-114

August 31, 2026

Frankincense Sacra Essential Oil

Boswellia sacra

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
May 15, 2026	**Steam Distilled**	**Wildcrafted**	**Oman**

TOP 5 COMPONENTS

of 72 measured

α-pinene	Monoterpene	**62.37%**
limonene (d)	Monoterpene	**6.35%**
δ-3-carene	Monoterpene	**5.89%**
camphene	Monoterpene	**2.75%**
β-pinene	Monoterpene	**2.49%**

Batch FRS-114 comes from wildcrafted *Boswellia sacra* resin harvested in Oman, the arid homeland long associated with this particular frankincense. The resin was steam distilled in May 2026, a method that carries the lighter, brighter aromatic fractions into the oil while leaving the heavier resinous material behind. The result is a clear, bright, softly citrus-tinged frankincense with the dry warmth and quiet lift that make it a favorite for meditation, breathwork, and grounding blends that support a sense of calm and clarity.

Because the trees grow wild rather than under cultivation, each season's oil carries its own signature, which is exactly why we test every lot rather than relying on a general profile. This batch was independently analyzed by GC-MS, and the full chromatogram and certificate of analysis are available to download here so you can read the composition for yourself. Verified chemistry, an origin, and nothing added between the tree and the bottle.

CHEMISTRY HIGHLIGHTS

α-Pinene leads at 62.37%, which sits toward the low end of the 58.79-80.41% span we've recorded across ten analyzed batches of this *Boswellia sacra* (mean 70.05%). The slack gets taken up further down the monoterpene list: δ-3-carene at 5.89% is near the top of its 1.1-6.08% range, and limonene reads 6.35%.

Total monoterpenes still land at 88.99%, so the shape is familiar even as the internal balance shifts.

FRS-114 is a busy chromatogram, 72 components, and the tail is where it gets fun. The pinene oxidation family shows up in order: (E)-verbenol 0.81%, (E)-pinocarveol 0.71%, α-campholene aldehyde 0.47%, verbenone 0.24%, α-pinene oxide 0.03%. Two ester/alcohol pairs also appear, bornyl acetate (0.56%) with borneol, and linalyl acetate with linalool at 0.10%.

Full composition · 72 components across 10 families

Monoterpene	**88.99%**
α-pinene	62.37%
limonene (d)	6.35%
δ-3-carene	5.89%
camphene	2.75%
β-pinene	2.49%
α-phellandrene	2.19%
sabinene	1.65%
p-cymene	1.34%
β-myrcene	1.31%
β-phellandrene	0.96%
α-thujene	0.42%
(Z)-β-ocimene	0.36%
terpinolene	0.30%
hashishene	0.24%
alloocimene	0.11%
γ-terpinene	0.10%
α-terpinene	0.09%
δ-2-carene	0.05%
α-fenchene	0.02%
Monoterpenol	**3.67%**
(E)-verbenol	0.81%
(E)-pinocarveol	0.71%

p-mentha-1,5-dien-8-ol	0.62%
α-terpineol	0.61%
terpinen-4-ol	0.23%
myrtenol	0.16%
p-cymen-8-ol	0.13%
(E)-carveol	0.12%
linalool	0.10%
borneol	0.08%
(Z)-sabinene hydrate	0.07%
(Z)-carveol	0.03%
Sesquiterpene	**2.75%**
β-elemene	0.62%
β-bourbonene	0.49%
β-caryophyllene	0.30%
β-selinene	0.30%
α-selinene	0.23%
δ-cadinene	0.16%
α-copaene	0.14%
germacrene D	0.13%
α-caryophyllene	0.11%
γ-muurolene	0.10%
β-copaene	0.06%
allo-aromadendrene	0.04%
α-cubebene	0.03%
cyclosativene	0.03%
α-gurjunene	0.01%
Ketone	**0.78%**
thuja-2,4(10)-diene	0.49%
verbenone	0.24%

pinocamphone	0.04%
carvone	0.01%
Ester	**0.72%**
bornyl acetate	0.56%
α-terpinyl acetate	0.14%
linalyl acetate	0.02%
Oxide	**0.66%**
1,8-cineole	0.53%
caryophyllene oxide	0.05%
α-pinene oxide	0.03%
(Z)-limonene oxide	0.03%
2,3-dehydro-1,8-cineole	0.02%
Aldehyde	**0.60%**
α-campholene aldehyde	0.47%
myrtenal	0.13%
Sesquiterpenol	**0.26%**
viridiflorol	0.08%
cubebol	0.07%
β-eudesmol	0.06%
epi-cubebol	0.04%
elemol	0.01%
Other	**0.25%**
toluene	0.14%
ylangene<β->	0.04%
Butanediol<2,3->	0.03%
Cyclohexene<3,3,5...trimethyl->	0.02%
1,3,8-paraMenthatriene	0.01%
1-tetradecene	0.01%

Ether	**0.17%**
2-methylanisole	0.17%