AROMATICS DATA

GC-MS BATCH SUMMARY

Batch GGR-110

November 1, 2026

Gingergrass Essential Oil

Cymbopogon martinii var. sofia

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
March 15, 2026	Steam Distilled	Wildcrafted	India

TOP 5 COMPONENTS

of 128 measured

limonene (d)	Monoterpene	16.78%
camphene	Monoterpene	11.24%
elemicin	Ether	10.24%
borneol	Monoterpenol	8.61%
β-caryophyllene	Sesquiterpene	6.49%

Batch GGR-110 of Gingergrass (*Cymbopogon martinii var. sofia*) comes from India, where the grass is wildcrafted and steam distilled. Distilled in March 2026, it carries the bright, peppery-green character that sets gingergrass apart from its palmarosa cousin, with a warm herbaceous base underneath.

GC-MS analysis of this batch identified 128 components. Limonene leads at 16.78%, followed by camphene at 11.24% and elemicin at 10.24%, with borneol contributing 8.61%. Monoterpenes dominate the profile at 42.2%, the family associated with fresh, uplifting diffusion and a sense of clarity, while a solid 16.21% monoterpenol content lends the gentle, skin-friendly quality valued in dilute topical blends.

This exact batch was independently GC-MS tested, and the full report and certificate of analysis are available to download so you can see the chemistry behind the bottle for yourself.

CHEMISTRY HIGHLIGHTS

Batch GGR-110 leans hard monoterpene (42.2% of the profile), and d-limonene leads at 16.78%, above the 6.79-13.78% we have seen across our other Gingergrass batches. Elemicin at 10.24% sits near the top of its historical 0.86-12.59% spread, while borneol at 8.61% nearly touches its 8.73% ceiling. α-Terpineol's 2.11%

Generated November 1, 2026 from live batch data · © 2026 Aromatics International

also edges past the 1.95% high we have on file.

The geranyl side is the quiet story here. Geraniol comes in at 0.85% and geranyl acetate at 1.79%, both well under their historical means of 7.41% and 7.56%, so the usual rosy-sweet counterweight is largely absent and the camphoraceous borneol/bornyl acetate pairing (8.61% and 1.07%) carries more of the character. With 128 components resolved and a 15.21% sesquiterpene fraction led by β-caryophyllene at 6.49%, this is a busy, resinous-skewing chromatogram.

Full composition · 128 components across 12 families

Monoterpene	**42.20%**
limonene (d)	16.78%
camphene	11.24%
α-pinene	4.61%
tricyclene	2.76%
β-myrcene	1.70%
(Z)-β-ocimene	1.66%
terpinolene	1.37%
alloocimene	0.76%
sabinene	0.40%
p-cymene	0.31%
α-phellandrene	0.20%
γ-terpinene	0.15%
β-pinene	0.13%
α-terpinene	0.07%
bornylene	0.03%
hashishene	0.02%
isoterpinolene	0.01%
Monoterpenol	**16.21%**
borneol	8.61%
α-terpineol	2.11%
linalool	1.03%

Generated November 1, 2026 from live batch data · © 2026 Aromatics International

terpinen-4-ol	0.91%
geraniol	0.85%
myrtenol	0.73%
p-mentha-1,5-dien-8-ol	0.55%
citronellol	0.46%
(Z)-verbenol	0.26%
isoborneol	0.22%
p-cymen-8-ol	0.14%
(E)-carveol	0.11%
(Z)-p-Menth-2-en-1-ol	0.09%
(E)-p-menth-2-en-1-ol	0.07%
1-octanol	0.02%
(E)-sabinene hydrate	0.02%
isopulegol	0.02%
(E)-piperitol	0.01%
Sesquiterpene	**15.21%**
β-caryophyllene	6.49%
δ-cadinene	1.72%
germacrene D	1.46%
β-elemene	1.29%
α-caryophyllene	0.73%
β-bourbonene	0.70%
β-copaene	0.45%
β-bisabolene	0.29%
(Z)-cadina-1(6),4-diene	0.27%
γ-cadinene	0.26%
α-cubebene	0.25%
α-muurolene	0.25%
α-copaene	0.20%
(E)-cadina-1,4-diene	0.18%

Generated November 1, 2026 from live batch data · © 2026 Aromatics International

zonarene	0.14%
γ-muurolene	0.13%
allo-aromadendrene	0.12%
cuparene	0.11%
δ-elemene	0.06%
dauca-5,8-diene	0.06%
α-selinene	0.05%
Ether	**10.35%**
elemicin	10.24%
methyl eugenol	0.11%
Aldehyde	**3.76%**
isogeranial	2.52%
citronellal	0.80%
α-campholene aldehyde	0.14%
geranial	0.11%
neral	0.08%
(Z)-4-decenal	0.05%
octanal	0.03%
2,6-dimethyl-5-heptenal	0.02%
dodecanal	0.01%
Ester	**3.74%**
geranyl acetate	1.79%
bornyl acetate	1.07%
(Z)-muurola-3,5-diene	0.25%
camphene hydrate	0.23%
bornyl formate	0.09%
myrtenyl acetate	0.09%
citronellyl acetate	0.08%
α-terpinyl acetate	0.06%

(Z)-pinocarvyl acetate	0.05%
geranyl formate	0.01%
methyl geranate	0.01%
decyl acetate	0.01%
Other	**1.82%**
30.19 cubebol<10-epi->	0.60%
Hedycaryol	0.32%
cis-para-Mentha2,8-dien-1-ol	0.10%
15.80 Caranone<cis4->	0.10%
(Z)-4-Hexenol	0.09%
trans-gammaBisabolene	0.09%
trans-Isoelemicin	0.06%
trans-para-Mentha2,8-dien-1-ol	0.04%
1-tetradecene	0.04%
Amorphane<cis-...4,10-epoxy->	0.04%
4-heptanone	0.03%
6-Methyl-5-hepten2-one	0.03%
Vertocitral C<trans->	0.03%
Barbatene<α->	0.03%
Cadinene<α->	0.03%
Bisabolone	0.03%
nonane	0.02%
Fenchocamphoron...α->	0.02%
cis-para-Mentha1(7),8-dien-2-ol	0.02%
Myrtanol acetate<trans->	0.02%
betaDihydroagarofuran	0.02%
Caryophyllene<14-...hydroxy-9-epi-(E)->	0.02%
3-Hexanone	0.01%
Butanediol<2,3->	0.01%
octane	0.01%

cis-alpha Bergamotene	0.01%
Sesquiterpenol	**1.58%**
cubebol	0.74%
(E)-nerolidol	0.38%
epi-cubenol	0.17%
1,10-epi-cubenol	0.13%
1-nonanol	0.05%
α-cadinol	0.05%
γ-eudesmol	0.03%
germacrene D-4-ol	0.02%
spathulenol	0.01%
Oxide	**1.13%**
caryophyllene oxide	0.86%
1,8-cineole	0.11%
humulene epoxide 2	0.07%
(E)-limonene oxide	0.04%
2,3-dehydro-1,8-cineole	0.03%
linalool (Z)-oxide	0.02%
Ketone	**0.90%**
camphor	0.46%
thuja-2,4(10)-diene	0.13%
carvone	0.12%
4-nonanone	0.08%
piperitone	0.07%
verbenone	0.04%
Furan	**0.06%**
perillene	0.06%

Generated November 1, 2026 from live batch data · © 2026 Aromatics International

Phenol	**0.04%**
eugenol	0.04%

Generated November 1, 2026 from live batch data · © 2026 Aromatics International