AROMATICS DATA

GC-MS BATCH SUMMARY

Batch PRS-120

November 13, 2026

Palmarosa Essential Oil

Cymbopogon martinii var. Motia

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
June 15, 2026	Steam Distilled	Organically Grown	India

TOP 5 COMPONENTS

of 50 measured

geraniol	Monoterpenol	**75.38%**
geranyl acetate	Ester	**12.14%**
linalool	Monoterpenol	**2.73%**
(E)-β-ocimene	Monoterpene	**1.47%**
β-caryophyllene	Sesquiterpene	**1.42%**

Batch PRS-120 comes from organically grown palmarosa in India, steam distilled from the grassy tops of *Cymbopogon martinii var. Motia* in June 2026. The aroma is classic palmarosa: soft, rosy and sweet, with a green herbaceous lift underneath.

GC-MS analysis of this batch identified 50 components. Geraniol leads at 75.38 percent, followed by geranyl acetate at 12.14 percent and linalool at 2.73 percent. That puts monoterpenols at just over 78 percent of the profile, a family long associated with gentle, skin-friendly character, while the ester fraction near 14 percent adds the calming, rounded sweetness palmarosa is loved for.

Every batch we bring in is independently GC-MS tested before it reaches you, and this one is no exception. The full report and certificate of analysis for PRS-120 are available to download here, so you can see exactly what is in the bottle.

CHEMISTRY HIGHLIGHTS

Geraniol at 75.38% anchors this batch of *Cymbopogon martinii* var. Motia, slightly below the 77.03% mean across our ten analyzed batches but comfortably inside the 70.58-82.96% span. The more interesting move

is the ester side: geranyl acetate at 12.14% sits above our 10.62% average, and it brings a whole geranyl ester family with it (caproate 1.10%, butyrate 0.27%, caprylate 0.25%, formate 0.11%, isovalerate 0.05%). Alcohol and its acetate together account for 87.52% of PRS-120.

Two small details worth a look. (Z,E)-farnesol reads 0.85%, above the 0.32-0.65% range we have logged for that isomer. And geraniol's oxidation and isomer partners are all here in trace: geranial 0.45%, neral 0.19%, nerol 0.17%, a tidy picture of the C10 pathway in one column.

Full composition · 50 components across 9 families

Monoterpenol	**78.34%**
geraniol	75.38%
linalool	2.73%
nerol	0.17%
α-terpineol	0.03%
citronellol	0.03%
Ester	**14.11%**
geranyl acetate	12.14%
geranyl caproate	1.10%
geranyl butyrate	0.27%
geranyl caprylate	0.25%
(E,E)-farnesyl acetate	0.12%
geranyl formate	0.11%
geranyl isovalerate	0.05%
citronellyl acetate	0.04%
ethyl palmitate	0.02%
isoamyl acetate	0.01%
Monoterpene	**2.20%**
(E)-β-ocimene	1.47%
(Z)-β-ocimene	0.26%
β-myrcene	0.21%
limonene (d)	0.10%

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alloocimene	0.08%
pseudolimonene	0.04%
terpinolene	0.03%
p-cymene	0.01%
Sesquiterpene	**1.70%**
β-caryophyllene	1.42%
β-elemene	0.08%
α-caryophyllene	0.08%
β-chamigrene	0.04%
valencene	0.03%
α-panasinsen	0.03%
β-selinene	0.02%
Sesquiterpenol	**0.96%**
(Z,E)-farnesol	0.85%
(E)-nerolidol	0.11%
Aldehyde	**0.69%**
geranial	0.45%
neral	0.19%
nonanal	0.02%
hexadecanal	0.02%
2,6-dimethyl-5-heptenal	0.01%
Oxide	**0.22%**
caryophyllene oxide	0.18%
linalool (Z)-oxide	0.02%
(E)-linalool oxide	0.02%
Other	**0.18%**
perillyl alcohol	0.05%
1-hexadecene	0.03%
3-Hexanone	0.02%

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trans-dehydroxy linalool oxide	0.02%
isoamyl hexanoate	0.02%
Butanediol<2,3->	0.01%
octane	0.01%
6-methyl-3,5-heptadien-2-one	0.01%
1-tetradecene	0.01%
Ketone	**0.10%**
6-methyl-5-hepten-2-one	0.10%

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