AROMATICS DATA

GC-MS BATCH SUMMARY

Batch TML-106

November 20, 2026

Tamala Essential Oil

Cinnamomum tamala ct linalool

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
September 15, 2026	**Steam Distilled**	**Unsprayed**	**Nepal**

TOP 5 COMPONENTS		of 65 measured
linalool	Monoterpenol	**40.07%**
(E)-methylcinnamate	Ester	**20.16%**
α-pinene	Monoterpene	**7.50%**
limonene (d)	Monoterpene	**6.27%**
β-pinene	Monoterpene	**4.22%**

Sourcing Description

Batch TML-106 comes from Nepal, where *Cinnamomum tamala* trees are planted and cultivated for their aromatic leaves. The leaves are harvested and steam distilled, producing an essential oil with the warm, radiant, spicy aroma this tree is known for.

This batch comes from a different growing region than our previous Tamala oils. The trees grow at approximately 650 meters above sea level, compared to 1,450 meters for our earlier batches. Although the botanical species is the same, the growing environment is quite different, and the essential oil reveals some remarkable variations in its natural chemistry.

Distilled in September 2026, this batch has an exotic, sensual aroma with a rich, spicy warmth, soft floral notes, and a gentle balsamic sweetness. The oil is a clear, translucent liquid ranging from colorless to pale yellow, with a shelf life of four years.

As with every essential oil we offer, batch TML-106 has been independently GC-MS tested to identify its natural

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chemical components. The complete GC-MS report and Certificate of Analysis are available to download, giving you a closer look at the chemistry of the oil in your bottle.

CHEMISTRY HIGHLIGHTS

Batch TML-106 has a particularly interesting chemical profile, with a much higher percentage of methyl (E)-cinnamate than we have seen in our previous Tamala oils. GC-MS analysis detected 65 individual components, 64 of which were identified, in this *Cinnamomum tamala ct. linalool* essential oil.

The leading component is **linalool at 40.07%**, contributing the soft, floral, slightly sweet character familiar to this oil. **Methyl (E)-cinnamate follows at 20.16%**, bringing a rich, sweet, balsamic warmth, while **alpha-pinene at 7.50%** adds a fresh, resinous brightness.

Monoterpenols are the largest chemical family at 41.66%, with linalool making up nearly all of this group. Smaller contributions come from alpha-terpineol at 0.57% and terpinen-4-ol at 0.33%.

Monoterpenes account for 26.55%, bringing fresh, bright, woodsy notes through alpha-pinene, limonene at 6.27%, and beta-pinene at 4.22%. Esters make up 21.77%, with methyl (E)-cinnamate accounting for nearly all of this family.

Looking across our previous Tamala batches, linalool has ranged from 32.71% to 47.19%, placing this batch comfortably within that range. The striking difference is methyl (E)-cinnamate, which previously measured just 1.71% to 2.06%. At the same time, **1,8-cineole has dropped to 3.95%**, compared with 13.1% to 14.61% in earlier batches.

The difference in growing elevations makes this variation especially interesting. Plants of the same species can develop different chemical profiles depending on their growing environment, and this batch raises the possibility of a distinct chemical expression, perhaps even a different chemotype.

Smaller components, including beta-caryophyllene at 2.50% and coumarin at 0.37%, add further depth to the chemical fingerprint.

The result is a wonderfully warm, radiant, and spicy Tamala essential oil, with a distinctive sweetness and balsamic richness that sets this batch apart from those we've offered before.

Full composition · 65 components across 11 families

Monoterpenol	**41.66%**
linalool	40.07%
α-terpineol	0.57%
terpinen-4-ol	0.33%

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borneol	0.26%
hotrienol	0.19%
p-cymen-8-ol	0.10%
geraniol	0.08%
(E)-sabinene hydrate	0.04%
(E)-pinocarveol	0.02%
Monoterpene	**26.55%**
α-pinene	7.50%
limonene (d)	6.27%
β-pinene	4.22%
p-cymene	2.53%
camphene	1.75%
β-myrcene	0.96%
α-phellandrene	0.92%
sabinene	0.62%
α-thujene	0.50%
β-phellandrene	0.47%
δ-3-carene	0.28%
terpinolene	0.20%
(E)-β-ocimene	0.12%
γ-terpinene	0.10%
α-fenchene	0.06%
α-terpinene	0.05%
Ester	**21.77%**
(E)-methylcinnamate	20.16%
bornyl acetate	1.05%
(Z)-methylcinnamate	0.44%
geranyl acetate	0.12%

Oxide	**4.66%**
1,8-cineole	3.95%
caryophyllene oxide	0.40%
linalool (Z)-oxide	0.16%
(E)-linalool oxide	0.15%
Sesquiterpene	**3.40%**
β-caryophyllene	2.50%
α-caryophyllene	0.20%
viridiflorene	0.12%
γ-muurolene	0.08%
α-amorphene	0.08%
γ-cadinene	0.08%
allo-aromadendrene	0.07%
α-ylangene	0.06%
β-elemene	0.05%
β-copaene	0.05%
δ-elemene	0.04%
α-gurjunene	0.04%
β-selinene	0.03%
Other	**0.51%**
coumarin	0.37%
cis-2,3-pinanediol	0.05%
1-hexanol	0.04%
octane	0.03%
3-Hexanone	0.02%
Aldehyde	**0.46%**
(E)-cinnamaldehyde	0.14%
benzaldehyde	0.09%
geranial	0.07%

salicylaldehyde	0.06%
neral	0.05%
decanal	0.04%
octanal	0.01%
Sesquiterpenol	**0.38%**
(E)-nerolidol	0.23%
spathulenol	0.11%
isospathulenol	0.04%
Diterpene	**0.13%**
kaurene	0.13%
Ketone	**0.13%**
camphor	0.10%
pinocarvone	0.03%
Phenol	**0.02%**
eugenol	0.02%