AROMATICS DATA

GC-MS BATCH SUMMARY

Batch LEM-131

November 17, 2026

Lemon Essential Oil

Citrus limon

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
March 15, 2026	Cold Pressed	Organically Grown	Italy

TOP 5 COMPONENTS

of 51 measured

limonene (d)	Monoterpene	66.30%
β-pinene	Monoterpene	10.46%
γ-terpinene	Monoterpene	8.87%
β-myrcene	Monoterpene	2.07%
α-pinene	Monoterpene	2.02%

Our Lemon Oil (*Citrus limon*), batch LEM-131, comes from organically grown lemons in Italy. The oil is cold pressed from the peel rather than distilled, with a bright, clean aroma reminiscent of freshly zested lemon. It has that familiar citrus freshness you notice as soon as the bottle opens.

Every batch is independently GC-MS tested before it reaches you. The full chromatogram and certificate of analysis for LEM-131 are available to download here, so you can review the testing behind the oil you choose.

CHEMISTRY HIGHLIGHTS

Analysis identified 51 components in LEM-131, with monoterpenes accounting for 93.86% of the profile. Limonene leads at 66.3%, followed by beta-pinene at 10.46% and gamma-terpinene at 8.87%. Compared with the 14 other batches in our records, limonene sits in the upper half of the recorded 53.8–69.86% range.

The more distinctive differences appear among the minor constituents. P-cymene measures 1.25%, above the 0.08–0.88% range recorded in those comparison batches. The two components that make up citral are lower: geranial is 0.64%, compared with a recorded range of 1.06–2.6%, while neral is 0.42%, compared with 0.55–1.47%.

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Neryl acetate, at 0.73%, is above the comparison-batch average of 0.59%, while its related alcohol, nerol, is present at 0.03%. Together, these details show where LEM-131 differs from previous batches despite its familiar limonene-led profile.

Full composition · 51 components across 8 families

Monoterpene	**93.86%**
limonene (d)	66.30%
β-pinene	10.46%
γ-terpinene	8.87%
β-myrcene	2.07%
α-pinene	2.02%
sabinene	1.98%
p-cymene	1.25%
α-thujene	0.46%
terpinolene	0.16%
(Z)-β-ocimene	0.13%
camphene	0.06%
δ-3-carene	0.04%
α-phellandrene	0.03%
α-terpinene	0.03%
Sesquiterpene	**1.56%**
β-bisabolene	0.70%
(E)-α-bergamotene	0.48%
β-caryophyllene	0.20%
valencene	0.12%
(Z)-α-bergamotene	0.03%
(E)-β-farnesene	0.03%
Aldehyde	**1.47%**
geranial	0.64%
neral	0.42%

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nonanal	0.12%
citronellal	0.12%
octanal	0.09%
decanal	0.07%
perillaldehyde	0.01%
Ester	**1.20%**
neryl acetate	0.73%
geranyl acetate	0.41%
citronellyl acetate	0.06%
Monoterpenol	**0.94%**
citronellol	0.29%
linalool	0.19%
α-terpineol	0.17%
lavandulol	0.09%
(E)-p-mentha-2,8-dien-1-ol	0.05%
terpinen-4-ol	0.05%
p-cymen-8-ol	0.03%
nerol	0.03%
(E)-sabinene hydrate	0.02%
(E)-p-mentha-1(7),8-dien-2-ol	0.02%
Other	**0.20%**
ascaridole	0.10%
3-Hexanone	0.03%
Butanediol<2,3->	0.03%
cis-para-mentha-1(7),8-dien-2-ol	0.02%
1-tetradecene	0.02%
Oxide	**0.19%**
(Z)-limonene oxide	0.07%
(E)-limonene oxide	0.06%

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1,8-cineole	0.03%
caryophyllene oxide	0.03%
Sesquiterpenol	**0.06%**
spathulenol	0.03%
α-bisabolol	0.03%

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