AROMATICS DATA

GC-MS BATCH SUMMARY

Batch HBL-103

November 16, 2026

Hops Essential Oil Juicy Fruitbomb

Humulus lupulus

Essential Oil

DISTILLATION DATE	EXTRACTION	CULTIVATION	COUNTRY OF ORIGIN
September 1, 2021	**Steam Distilled**	**Conventional**	**USA**

TOP 5 COMPONENTS

of 69 measured

β-myrcene	Monoterpene	**49.23%**
α-caryophyllene	Sesquiterpene	**12.80%**
β-caryophyllene	Sesquiterpene	**7.42%**
para-camphorene	Other	**6.17%**
2-methylbutyl isobutyrate	Ester	**3.18%**

Full composition · 69 components across 10 families

Monoterpene	**52.62%**
β-myrcene	49.23%
β-pinene	1.73%
limonene (d)	0.77%
(E)-β-ocimene	0.62%
α-pinene	0.21%
hashishene	0.04%
(Z)-β-ocimene	0.02%
Sesquiterpene	**26.45%**
α-caryophyllene	12.80%
β-caryophyllene	7.42%

Every batch is GC-MS tested by an independent lab. This report is provided for full transparency by Aromatics International.

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γ-cadinene	1.12%
β-cadinene	1.10%
γ-muurolene	0.87%
β-selinene	0.76%
α-selinene	0.71%
β-copaene	0.54%
α-copaene	0.43%
α-cadinene	0.26%
(Z)-cadina-1(6),4-diene	0.13%
α-amorphene	0.11%
α-cubebene	0.08%
(E)-cadina-1,4-diene	0.05%
(Z)-α-bergamotene	0.04%
β-elemene	0.03%
Ester	**10.95%**
2-methylbutyl isobutyrate	3.18%
methyl 4-decenoate	1.72%
isoamyl propionate	0.75%
methyl heptanoate	0.74%
methyl octanoate	0.70%
isoamyl isobutyrate	0.67%
isobutyl isobutyrate	0.65%
methyl geranate	0.40%
geranyl acetate	0.39%
methyl nonanoate	0.33%
2-methylbutyl 2-methylbutyrate	0.31%
geranyl propionate	0.27%
methyl decanoate	0.20%
methylbutyl acetate	0.17%
linalyl acetate	0.12%

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isobutyl isovalerate	0.09%
isoamyl isovalerate	0.08%
isobutyl 2-methylbutyrate	0.08%
hexyl isobutyrate	0.05%
neryl acetate	0.04%
isoamyl acetate	0.01%
Other	**10.79%**
para-camphorene	6.17%
γ-camphorene	2.49%
4-decenoic acid	1.15%
2-methyl butyl isovalerate	0.46%
(E)-calamenene	0.26%
prenyl isobutyrate	0.09%
methyl hexanoate	0.06%
trans-calamenen-10-ol	0.04%
(Z)-epoxy-ocimene	0.03%
2-undecanol	0.02%
octane	0.01%
heptyl isobutanoate	0.01%
Oxide	**2.87%**
humulene epoxide 2	1.47%
caryophyllene oxide	1.40%
Ketone	**1.09%**
2-nonanone	0.47%
2-undecanone	0.39%
carvone	0.22%
cryptone	0.01%
Monoterpenol	**0.81%**
linalool	0.66%

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2-decen-1-ol	0.15%
Sesquiterpenol	**0.48%**
α-muurolol	0.36%
(Z)-sesquisabinene hydrate	0.12%
Furan	**0.26%**
perillene	0.26%
Aldehyde	**0.12%**
geranial	0.07%
isogeranial	0.05%

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