



Testing completed by:

HopTechnic

Certificate of Analysis

CoA ID	Date of Issue	Test Date
VTA-2591	10/22/2025	10/16/2025

Sample Type	Variety	Total Oil (mL/100G)
T90 Pellet	Vista	2.3
Alpha %	Beta %	HSI
11.4	3.9	0.257
HopTechnic-008 (Alpha & Beta Acids by HPLC, Modified EBC 7.8)		
HopTechnic-008 (HSI Determination by Calculation, Modified ASBC Hops-6)		
HopTechnic-116 (Total Oil Determination, ASBC Hops-16)		

Released by: 

Date: 10/22/2025



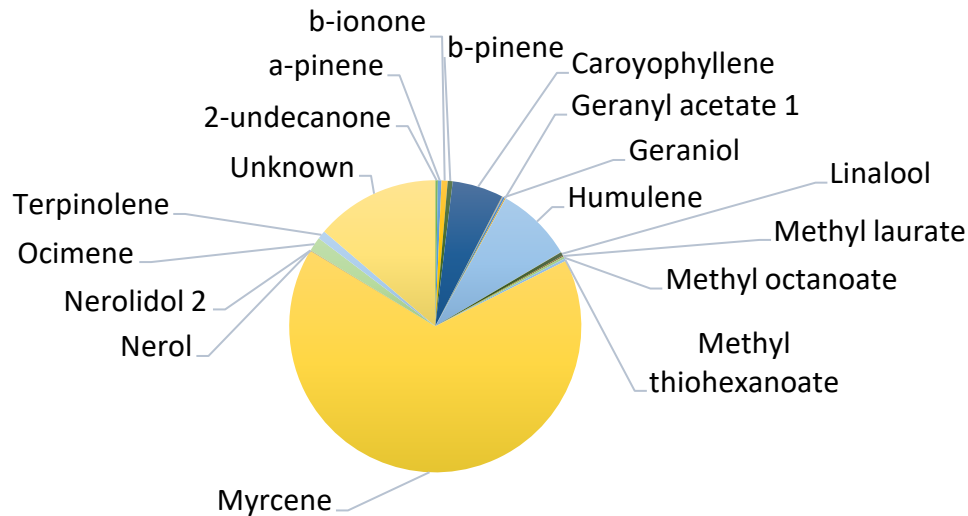
YAKIMA QUALITY HOPS

Testing completed by:

HopTechnic

Hop Oil Composition

CoA ID	Date of Issue	Test Date
VTA-2591	10/22/2025	10/16/2025
Sample Type	Variety	Total Oil (mL/100g)
VTA-2591	Vista	2.3
HopTechnic-116 (Total Oil Distillation, ASBC Hops-16)		
HopTechnic-116 (Terpenes Composition Analysis by GC-FID, modified ASBC Hops-17)		



Aroma Compound	% of Total Oil
2-Undecanone	0.29%
a-pinene	0.40%
B-ionone	0.68%
b-pinene	0.55%
Caryophyllene	5.65%
Caryophyllene oxide	0.06%
Citral	0.00%
Citronellene	0.04%
Citronellol	0.01%
Farnesene	0.01%
Geraniol	0.20%
Geranyl acetate 1	0.12%
Geranyl acetate 2	0.01%

Aroma Compound	% of Total Oil
Humulene	8.48%
Limonene	0.02%
Linalool	0.41%
Methyl Heptanoate	0.00%
Methyl Laurate	0.14%
Methyl Octanoate	0.24%
Methyl thiohexanoate	0.29%
Myrcene	66.05%
Nerol	0.00%
Nerolidol 1	0.02%
Nerolidol 2	0.05%
Ocimene	1.58%
Terpinolene	0.94%
Unidentified	13.76%

Released by: 

Date: 10/22/2025

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509-865-6422

*Results are related only to the samples tested and may or may not be representative of the lot.

COA Rev. YQH 10/28/24

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