



## Certificate of Analysis

CoA ID	Date of Issue	Test Date
CRY-2549	10/30/2025	10/23/2025, 10/29/2025

Sample Type	Variety	Total Oil (mL/100G)
T90 Pellet	Crystal	1.1
Alpha %	Beta %	HSI
3.0	5.4	0.252
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: 10/30/2025



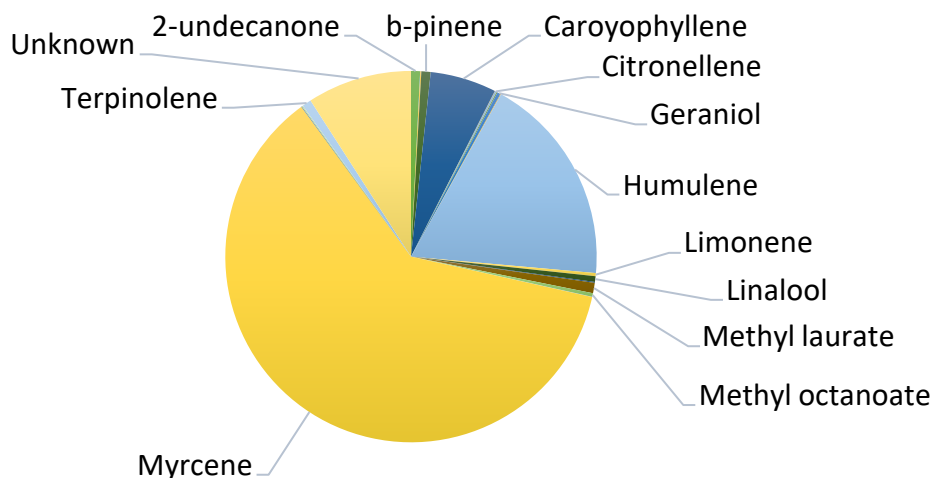
YAKIMA QUALITY HOPS

Testing completed by:

HopTechnic

## Hop Oil Composition

CoA ID	Date of Issue	Test Date
CRY-2549	10/30/2025	10/29/20205
Sample Type	Variety	Total Oil (mL/100g)
T90 Pellet	Crystal	1.1
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	0.79%
a-pinene	0.03%
B-ionone	0.08%
b-pinene	0.81%
Caryophyllene	5.76%
Caryophyllene oxide	0.03%
Citral	0.00%
Citronellene	0.12%
Citronellol	0.02%
Farnesene	0.09%
Geraniol	0.29%
Geranyl acetate 1	0.06%
Geranyl acetate 2	0.00%

Aroma Compound	% of Total Oil
Humulene	18.35%
Limonene	0.27%
Linalool	0.49%
Methyl Heptanoate	0.08%
Methyl Laurate	0.90%
Methyl Octanoate	0.31%
Methyl thiohexanoate	0.02%
Myrcene	61.44%
Nerol	0.01%
Nerolidol 1	0.05%
Nerolidol 2	0.00%
Ocimene	0.09%
Terpinolene	0.80%
Unidentified	9.11%

Released by: 

Date: 10/30/2025

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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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