



Testing completed by:



Certificate of Analysis

CoA ID	Date of Issue	Test Date
WIL-2595	10/30/2025	10/23/2025, 10/29/2025

Sample Type	Variety	Total Oil (mL/100G)
T90 Pellet	Willamette	1.0
Alpha %	Beta %	HSI
4.6	4.2	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: _____ 10/30/2025

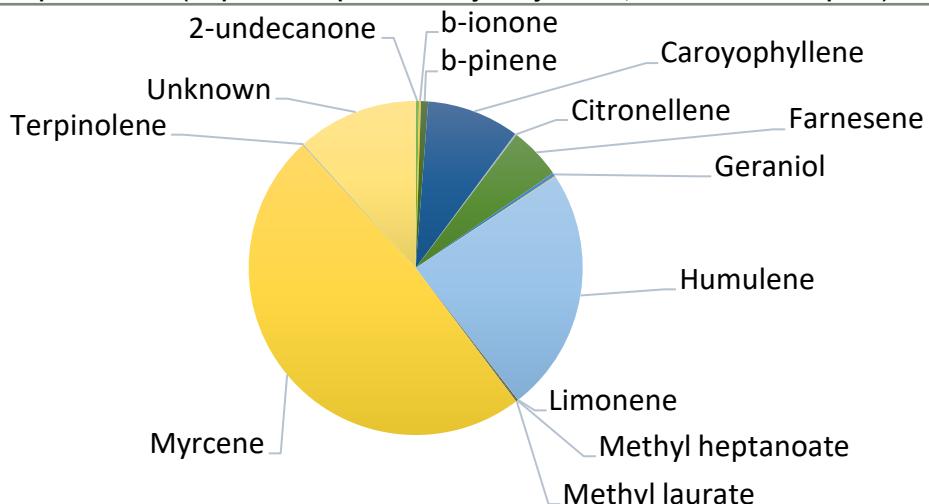
6371 Fort Rd Toppenish, WA 98948

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 Released by S. Conn

Hop Oil Composition

CoA ID	Date of Issue	Test Date
WIL-2595	10/30/2025	10/29/2025, 10/30/2025
Sample Type	Variety	Total Oil (mL/100g)
T90 Pellet	Willamette	1.0
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	0.32%
a-pinene	0.01%
B-ionone	0.18%
b-pinene	0.70%
Caryophyllene	8.95%
Caryophyllene oxide	0.04%
Citral	0.00%
Citronellene	0.10%
Citronellol	0.01%
Farnesene	5.07%
Geraniol	0.32%
Geranyl acetate 1	0.07%
Geranyl acetate 2	0.01%

Aroma Compound	% of Total Oil
Humulene	23.70%
Limonene	0.02%
Linalool	0.02%
Methyl Heptanoate	0.08%
Methyl Laurate	0.10%
Methyl Octanoate	0.00%
Methyl thiohexanoate	0.03%
Myrcene	48.46%
Nerol	0.00%
Nerolidol 1	0.03%
Nerolidol 2	0.02%
Ocimene	0.01%
Terpinolene	0.04%
Unidentified	11.69%

Released by:



Date: 10/30/2025

6371 Fort Rd Toppenish, WA 98948

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

COA Rev. YQH 10/28/24

Page 2 of 2

509-865-6422