



YAKIMA QUALITY HOPS

Testing completed by:



Certificate of Analysis

CoA ID	Date of Issue	Test Date
ELN-2404	11/04/2024	11/01/2024

Sample Type	Variety	Total Oil (mL/100G)
T90 Pellet	Elani™	1.1
Alpha %	Beta %	HSI
4.4	6.0	0.266
HopTechnic-008 (Alpha & Beta Acids by HPLC, Modified EBC 7.8)		
HopTechnic-008 (HSI Determination by Calculation, Modified EBC 7.8)		
HopTechnic-116 (Total Oil Determination, ASBC Hops-16)		

Released by:  _____

Date: 11/04/2024



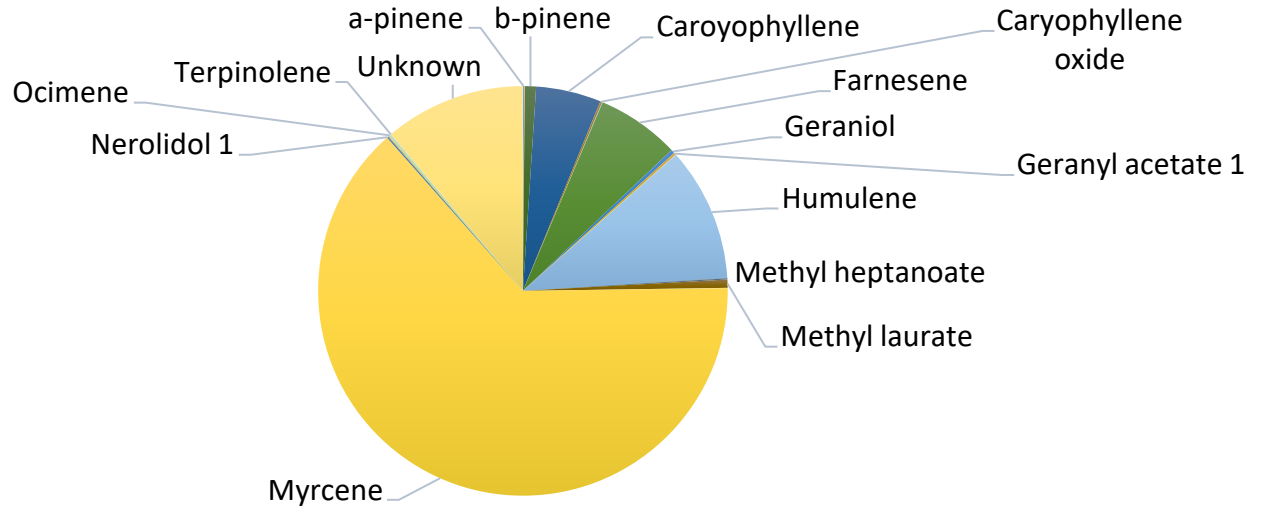
YAKIMA QUALITY HOPS

Testing completed by:



Hop Oil Composition

CoA ID	Date of Issue	Test Date
ELN-2404	11/04/2024	11/01/2024
Sample Type	Variety	Total Oil (mL/100g)
T90 Pellet	Elani™	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	0.00%
a-pinene	0.10%
B-ionone	0.04%
b-pinene	0.88%
Caryophyllene	5.15%
Caryophyllene oxide	0.15%
Citral	0.00%
Citronellene	0.03%
Citronellol	0.00%
Farnesene	6.57%
Geraniol	0.30%
Geranyl acetate 1	0.17%
Geranyl acetate 2	0.05%

Aroma Compound	% of Total Oil
Humulene	10.55%
Limonene	0.00%
Linalool	0.03%
Methyl Heptanoate	0.08%
Methyl Laurate	0.65%
Methyl Octanoate	0.02%
Methyl thiohexanoate	0.01%
Myrcene	63.66%
Nerol	0.00%
Nerolidol 1	0.11%
Nerolidol 2	0.07%
Ocimene	0.19%
Terpinolene	0.05%
Unidentified	11.13%

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