# **KPU - AGC Hops Service** Certificate of Analysis

Customer:	Ray Bredenhof
Date of Arrival:	Sep.28, 23
Date of Analysis:	Oct.3, 23
Date of Report:	Oct.4, 23
Hop/Sample Name:	Mt.Hood
Sample Form:	Dried Flower
Mass of Hops (g):	133

# Report Number:57-RBApplied<br/>Genomics<br/>CentreKwantlen Polytechnic University<br/>12666 72nd Ave<br/>Surrey, BC<br/>V3W 2M8

## Alpha/Beta Acid Analysis - ASBC Hops-14 Method

	Percent (%) by Mass
Alpha Acids	
Cohumulone	0.49
n+Adhumulone	2.16
Total Alpha Acids	2.65
Beta Acids	
Colupulone	2.02
n+Adlupulone	3.01
Total Beta Acids	5.03
HSI	0.20

### Essential Oil Analysis - EBC 7.12 Method

· · · · · · · · · · · · · · · · · · ·	mg per g of Hops	Percent (%) by Hops Mass
β-Myrcene	1.5	0.15
β-Caryophyllene	0.6	0.06
trans-β-Farnesene	0.0	0.00
α-Humulene	1.1	0.11
Total 4 Major Hops Oils	3.2	0.32

### Analytical methods as noted in link below:

https://www.kpu.ca/sites/default/files/Applied%20Genomics%20Centre/KPU\_Hops\_Testing\_Info.pdf

### Terms and Conditions:

 $https://www.kpu.ca/sites/default/files/Applied\%20Genomics\%20Centre/KPU\_Hops\_Testing\_Services\_Terms\_and\_Conditions.pdf$ 

Samples kept for 1 month post-testing

Data reviewed by:

Mathias Schuetz, PhD KPU Applied Genomics Center