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:	Nugget
Sample Form:	Dried Flower
Mass of Hops (g):	98

Report Number:

57-RB



Kwantlen Polytechnic University 12666 72nd Ave Surrey, BC V3W 2M8

Alpha/Beta Acid Analysis - ASBC Hops-14 Method

	Percent (%) by Mass
Alpha Acids	
Cohumulone	2.96
n+Adhumulone	7.58
Total Alpha Acids	10.54
Beta Acids	
Colupulone	2.11
n+Adlupulone	1.90
Total Beta Acids	4.01
HSI	0.23

Essential Oil Analysis - EBC 7.12 Method

	mg per g of Hops	Percent (%) by Hops Mass
β-Myrcene	5.5	0.55
β-Caryophyllene	0.8	0.08
trans-β-Farnesene	0.0	0.00
α-Humulene	1.4	0.14
Total 4 Major Hops Oils	7.6	0.76

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