

KPU - AGC Hops Service

Certificate of Analysis

Report Number:

57-RB

Customer:	Ray Bredenhof
Date of Arrival:	Sep.28, 23
Date of Analysis:	Oct.3, 23
Date of Report:	Oct.4, 23
Hop/Sample Name:	Centennial
Sample Form:	Dried Flower
Mass of Hops (g):	110



Applied
Genomics
Centre

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

Alpha/Beta Acid Analysis - ASBC Hops-14 Method

Percent (%) by Mass

Alpha Acids	
Cohumulone	1.73
n+Adhumulone	4.72
Total Alpha Acids	6.45
Beta Acids	
Colupulone	1.34
n+Adlupulone	1.26
Total Beta Acids	2.60
HSI	0.23

Essential Oil Analysis - EBC 7.12 Method

mg per g of Hops

Percent (%) by Hops Mass

	mg per g of Hops	Percent (%) by Hops Mass
β -Myrcene	4.0	0.40
β -Caryophyllene	0.4	0.04
trans- β -Farnesene	0.0	0.00
α -Humulene	0.7	0.07
Total 4 Major Hops Oils	5.1	0.51

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:

A handwritten signature in black ink, appearing to read 'M. Schuetz', is written over a horizontal line.

Mathias Schuetz, PhD
KPU Applied Genomics Center