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

Customer:	Mark Topper / Topp's Hops
Date of Arrival:	Sep.28, 23
Date of Analysis:	Oct.3, 23
Date of Report:	Oct.15, 23
Hop/Sample Name:	SARCASH230913
Sample Form:	Dried Flower
Mass of Hops (g):	152

### **Report Number:**

58-MT



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

	Percent (%) by Mass
Alpha Acids	
Cohumulone	1.62
n+Adhumulone	5.43
Total Alpha Acids	7.05
Beta Acids	
Colupulone	2.33
n+Adlupulone	3.57
Total Beta Acids	5.90
HSI	0.21

#### Essential Oil Analysis - EBC 7.12 Method

	mg per g of Hops	Percent (%) by Hops Mass
β-Myrcene	2.1	0.21
β-Caryophyllene	0.7	0.07
trans-β-Farnesene	0.0	0.00
α-Humulene	1.8	0.18
Total 4 Major Hops Oils	4.6	0.46

#### 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**