



HOP CERTIFICATE OF ANALYSIS

Customer : Wisconsin Hop Exchange

Sample ID: 21SSZ1104-01LH



Variety: Super Saazer

Certifying Officer: Zach Lilla - Lab Manager

Date : 12/8/2021

TTB Certified Chemist - Member AOAC - ASBC - BJCP

Method			
Hops-4C	Moisture Analysis	% Moisture	11.8
		% Dry Matter	88.2
AAR	Xanthohumol by HPLC		NT mg/g
Hops-12	Hop Storage Index	HSI	0.278
Hops-13	Essential Oil by Steam Distillation	mL/100g	1.53
Hops-14	Alpha and Beta Acids by HPLC	Cohumulone	34.7 (% of Total AA)
ICE-3		% Alpha Acids	6.25
		Colupulone	52.4 (% of Total BA)
		% Beta Acids	5.59
		a/b ratio	1.12
Hops-17	Hop Essential Oil by GC-FID (as is)		
		% area	mg/100g
		B-Pinene	NT NT
		Myrcene	NT NT
		Linalool	NT NT
		Caryophyllene	NT NT
		Farnesene	NT NT
		Humulene	NT NT
		Geraniol	NT NT

NT=NOT TESTED

Signed: 
 Zachary Lilla - Lab Manager - TTB Certified Chemist





HOP QUALITY REPORT

Customer : Wisconsin Hop Exchange

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% Moisture	<input type="text" value="11.8"/>	Typical Range 8 - 12%	<input checked="" type="checkbox" value=""/>
Total Oil ml/100g @ 10%	<input type="text" value="1.57"/>	1.0 - 2.0 mL	<input checked="" type="checkbox" value=""/>
cohumulone	<input type="text" value="34.7"/>	30 - 35%	<input checked="" type="checkbox" value=""/>
Alpha Acids @ 10%	<input type="text" value="6.37"/>	5.0 - 8.0%	<input checked="" type="checkbox" value=""/>
Beta Acids @ 10%	<input type="text" value="5.70"/>	5.0 - 8.0%	<input checked="" type="checkbox" value=""/>
AROMA QUALITY (AQ)			
	% Area		
B-Pinene	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Myrcene	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Linalool	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Caryophyllene	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Farnesene	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Humulene	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Geraniol	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
	mg/mL		
B-Pinene	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Myrcene	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Linalool	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Caryophyllene	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Farnesene	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Humulene	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Geraniol	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
	mg/100g @ 10% Moisture		
B-Pinene	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Myrcene	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Linalool	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Caryophyllene	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Farnesene	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Humulene	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>
Geraniol	<input type="text" value="NT"/>	0	<input type="text" value="NT"/>

Signed: 
 Zachary Lilla - Lab Manager - TTB Certified Chemist

