



YAKIMA CHIEF HOPS LLC

Certificate of Analysis


Supplier: Yakima Chief Hops LLC
306 Division Street
Yakima, WA 98902

Product Name: Type 90 Hop Pellets

Lot Number: P92-EUSIM0067
Variety: Simcoe® Brand, YCR 14
Crop Year: 2020
Production Date: September 2020
Best Use Before Date: September 2023

<u>Characteristic</u>	<u>Typical Analysis</u>	<u>Actual Analysis</u>
Alpha Acids:	2.5 - 17.5% (w/w) LCV by EBC Analytica V 7.5	12.6%
Oil by Distillation:	Varies by Variety ASBC Hops - 13 (%v/w)	1.3%
Oil Profile by GC, EBC Analytica V 7.12:	B-Pinene: 0.5 % Myrcene: 35.2 % Linalool: 0.6 % Caryophyllene: 11.6 %	Farnesene: 0.2% Humulene: 23.7% Geraniol: 1.2%
Pesticides Residues:	Comply with US Regulations and EC Directive 396/2005 Amendments	

Lead:	< 1.0 ppm	passes test
Arsenic:	< 0.5 ppm	passes test
Cadmium:	< 0.03 ppm	passes test
Total Heavy Metals:	< 10 ppm (asPb)	passes test


 Missy Raver
 Quality Control Manager