

CERTIFICATE OF ANALYSIS

Product Name: Type 90 Hop Pellets

Lot Number: P91-AIUCAS0029

Variety: Cascade Crop Year: 2017

Characteristic	Typical Analysis	<u>Actual Analysis</u>
Alpha Acids:	2.5 - 17.5% (w/w) LCV by EBC Analytica V 7.5	6.6%
Oil by Distillation:	Varies by Variety ASBC Hops - 13 (%v/w)	1.4%
Oil Profile by GC, EBC Analytica V 7.12:	B-Pinene: 0.8 %	Farnesene: 5.6%

Myrcene: 52.7 % Humulene: 14.5% Linalool: 0.4 % Geraniol: 0.3%

Caryophyllene: 6.6 %