

CERTIFICATE OF ANALYSIS

Product Name: Type 90 Hop Pellets

Lot Number: P91-BKUCBS3094

Variety: Columbus Crop Year: 2018

<u>Characteristic</u> <u>Typical Analysis</u> <u>Actual Analysis</u>

Alpha Acids: 2.5 - 17.5% (w/w) 15.2%

LCV by EBC Analytica V 7.5

Oil by Distillation: Varies by Variety 2.8%

ASBC Hops - 13 (%v/w)

Oil Profile by GC, EBC Analytica V 7.12: B-Pinene: 0.8 % Farnesene: 0.4%

Myrcene: 52.1 % **Humulene:** 11.0% **Linalool:** 0.4 % **Geraniol:** 0.3%

Caryophyllene: 7.1 %