

CERTIFICATE OF ANALYSIS

Product Name: Type 90 Hop Pellets

Lot Number: P91-YJUCOL0036

Variety: Columbus

Crop Year: 2015

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

Alpha Acids: 2.5 - 17.5% (W/W) 15.0%

LCV by EBC Analytica V 7.5

Oil by Distillation: Varies by Variety 2.3%

ASBC Hops - 13 (%v/w)

Oil Profile by GC, EBC Analytica V 7.12: B-Pinene: 0.6 % Farnesene: 0.0%

Myrcene: 44.7 % Humulene: 12.6%

Linalool: 0.3 % Geraniol: 0.2%

Caryophyllene: 7.7 %