

## CERTIFICATE OF ANALYSIS

Product Name: Type 90 Hop Pellets

Lot Number: P91-ZJUCBS0152

Variety: Columbus Crop Year: 2016

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

Alpha Acids: 2.5 - 17.5% (w/w) 14.6%

LCV by EBC Analytica V 7.5

Oil by Distillation: Varies by Variety 2.9%

ASBC Hops - 13 (%v/w)

Oil Profile by GC, EBC Analytica V 7.12: B-Pinene: 0.8 % Farnesene: 0.3%

Myrcene: 53.8 % Humulene: 11.6% Linalool: 0.4 % Geraniol: 0.4%

Caryophyllene: 7.7 %