

CERTIFICATE OF ANALYSIS

Product Name: Type 90 Hop Pellets

Lot Number: P92-ZLUCRY5209

Variety: Crystal Crop Year: 2016

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

Alpha Acids: 2.5 - 17.5% (w/w) 5.2%

LCV by EBC Analytica V 7.5

Oil by Distillation: Varies by Variety 1.4%

ASBC Hops - 13 (%v/w)

Oil Profile by GC, EBC Analytica V 7.12: B-Pinene: 0.5 % Farnesene: 0.1%

Myrcene: 35.1 % Humulene: 27.6%

Linalool: 0.8 % Geraniol: 0.8%

Caryophyllene: 8.6 %