

CERTIFICATE OF ANALYSIS

Product Name: Type 90 Hop Pellets

Lot Number: P91-ALUCIT2224
Variety: Citra® Brand

Crop Year: 2017

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

Alpha Acids: 2.5 - 17.5% (w/w) 11.6%

LCV by EBC Analytica V 7.5

Oil by Distillation: Varies by Variety 2.1%

ASBC Hops - 13 (%v/w)

Oil Profile by GC, EBC Analytica V 7.12: B-Pinene: 0.8 % Farnesene: 0.1%

Myrcene: 61.3 % Humulene: 9.7%

Linalool: 0.7 % Geraniol: 0.3%

Caryophyllene: 6.5 %