

Certificate of Analysis

Product Name: LupuLN2™ Powder

Lot Number: PL1-ZIUCAS0006

Variety: Cascade

Crop Year: 2016

Production Date: September 2016

Best Use Before Date: October 2019

<u>Characteristic</u>	<u>Typical Analysis</u>	<u>Actual Analysis</u>
Alpha Acids:	2.5 - 17.5% (w/w) LCV by EBC Analytica V 7.5	11.4%
Oil by Distillation:	Varies by Variety ASBC Hops - 13 (%v/w)	2.6%
Oil Profile by GC, EBC Analytica V 7.12:	B-Pinene: 0.9 % Myrcene: 69.4 % Linalool: 0.4 % Caryophyllene: 4.1 %	Farnesene: 4.8 % Humulene: 9.9 % Geraniol: 0.3 %

Lead:	< 1.0 ppm	passes test
Arsenic:	< 0.5 ppm	passes test
Cadmium:	< 0.03 ppm	passes test
Total Heavy Metals:	< 10 ppm (asPb)	passes test

Selected Brewing Ingredients BV
Kraaiendonk 44
5428NZ Venhorst
Nederland