

Certificate of Analysis

Product Name: Type 90 Hop Pellets
Lot Number: P92-ZJUAMA5067
Variety: Amarillo® Brand VGXP01 cv.
Crop Year: 2016
Production Date: October 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	7.4%
Oil by Distillation:	Varies by Variety ASBC Hops - 13 (%v/w)	1.1%
Oil Profile by GC, EBC Analytica V 7.12:	B-Pinene: 0.7 %	Farnesene: 6.7 %
	Myrcene: 47.0 %	Humulene: 20.0 %
	Linalool: 0.6 %	Geraniol: 0.1 %
	Caryophyllene: 7.4 %	

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