

Certificate of Analysis

Product:	Vanguard T90
Batchnummer:	P92-ZAUVAN5172
Crop:	2015
Country of origin:	USA

<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	4.8 %
OIL BY DISTILLATION:	Varies by Variety ASBC Hops - 13 (% v/w)	0.7 %
OIL PROFILE BY GC, EBC Analytica V 7.12:	B-Pinene: 0.2 % Myrcene: 13.2 % Linalool: 0.3 % Caryophyllene: 14.3 %	Farnesene: 0.2 % Humulene: 46.7 % Geraniol: 0.1 %
LEAD:	< 1.0 ppm	passes test
ARSENIC:	< 0.5 ppm	passes test
CADMIUM:	< 0.03 ppm	passes test
TOTAL HEAVY METALS:	< 10 ppm (as Pb)	passes test

Selected Brewing Ingredients BV
 Kraaiendonk 44
 5428NZ Venhorst
 Nederland