



YAKIMA CHIEF - HOPUNION LLC  
**CERTIFICATE OF ANALYSIS**

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Supplier: Yakima Chief-Hopunion, LLC  
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Date of Issue: 16-Dec-2016

Product Name: Type 90 Hop Pellets

Lot Number: 6397-01  
Variety: NZ Rakau

<u>Characteristic</u>	<u>Typical Analysis</u>	<u>Actual Analysis</u>
Alpha Acids:	2.5 - 17.5% (w/w) UV Spectro by ASBC HOPS - 6A	10.3% <del>*</del>
Beta Acids:	3.0 - 9.0% (w/w) UV Spectro by ASBC HOPS - 6A	3.9%
Hop Storage Index	Varies by Variety and Time from Harvest Hop Storage Index by ASBC Hops - 12	0.274

10,7

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

Missy Raver  
Quality Control Manager