



YAKIMA CHIEF - HOPUNION LLC

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Certificate of Analysis

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PRODUCT NAME: Type 90 Hop Pellets

LOT NUMBER: P92-YLUCAS5136
VARIETY: Cascade

<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	6.9 %
OIL BY DISTILLATION:	Varies by Variety ASBC Hops - 13 (% v/w)	1.3 %
OIL PROFILE BY GC, EBC Analytica V 7.12:	<i>B-Pinene:</i> 0.8 % <i>Myrcene:</i> 52.2 % <i>Linalool:</i> 0.5 % <i>Caryophyllene:</i> 6.4 %	<i>Farnesene:</i> 6.6 % <i>Humulene:</i> 15.4 % <i>Geraniol:</i> 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 (as Pb)	passes test

Missy Raver
Quality Control Manager

This product was manufactured in a plant whose quality/environmental system is registered as being in conformity with ISO 9001:2008 and ISO 14001:2004.

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