



Yakima Chief – Hopunion LLC

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Certificate of Analysis

Supplier: Yakima Chief – Hopunion LLC.
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Date of Issue: 20-June -2017

Product Name: Type 90 Hop Pellets

Lot Number: P91-ABUVAN0337
Product Code: PEL-T90-FLN24-095
Variety: Vanguard

<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	5.1%
Beta Acids:	3.0 - 9.0% (w/w) UV Spectro by ASBC HOPS - 6A	6.2%
Hop Storage Index:	Varies by Variety and Time from Harvest Hop Storage Index by ASBC Hops - 12	0.278
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

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.