



# YAKIMA CHIEF, Inc.



555 WEST SOUTH HILL ROAD • POST OFFICE BOX 209 • SUNNYSIDE, WA 98944 • PHONE (509) 839-9022 • FAX (509) 839-5570  
V.A.T. BE 0469.147.032

## Certificate of Analysis

**SUPPLIER:** YAKIMA CHIEF, INC.  
555 West South Hill Road  
P.O. Box 209  
Sunnyside, WA 98944  
Tel: +1.509.839.90.22  
Fax: +1.509.839.55.70

**PRODUCT NAME:** YC-Type 90 Hop Pellets  
**LOT NUMBER:** P9-ULMH265  
**PRODUCT CODE:** P90-4X5F-05K, 40-100-0109  
**VARIETY:** Mount Hood

<u>CHARACTERISTIC</u>	<u>TYPICAL ANALYSIS</u>	<u>ACTUAL ANALYSIS</u>
<b>ALPHA ACIDS:</b>	2.5 - 17.5% (w/w) LCV by EBC Analytica V 7.5	6.1 %
<b>OIL BY DISTILLATION:</b>	Varies by Variety ASBC Hops - 13 (% v/w)	1.0 %
<b>OIL PROFILE BY GC, EBC Analytica V 7.12:</b>	<b>B-Pinene:</b> 0.1 % <b>Myrcene:</b> 8.1 % <b>Linalool:</b> 0.5 % <b>Caryophyllene:</b> 17.1 %	<b>Farnesene:</b> 0.0 % <b>Humulene:</b> 42.8 % <b>Geraniol:</b> 0.3 %
<b>LEAD:</b>	< 1.0 ppm	passes test
<b>ARSENIC:</b>	< 0.5 ppm	passes test
<b>CADMIUM:</b>	< 0.05 ppm	passes test
<b>TOTAL HEAVY METALS:</b>	< 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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**PRODUCT NAME:** YC-Type 90 Hop Pellets

**LOT NUMBER:** P9-WAMH017  
**PRODUCT CODE:** P90-4X5F-05K, 40-100-0109  
**VARIETY:** Mount Hood

<u>CHARACTERISTIC</u>	<u>TYPICAL ANALYSIS</u>	<u>ACTUAL ANALYSIS</u>
<b>ALPHA ACIDS:</b>	2.5 - 17.5% (w/w) LCV by EBC Analytica V 7.5	6.3 %
<b>OIL BY DISTILLATION:</b>	Varies by Variety ASBC Hops - 13 (% v/w)	1.5 %
<b>OIL PROFILE BY GC, EBC Analytica V 7.12:</b>	<b>B-Pinene:</b> 0.4 % <b>Myrcene:</b> 23.1 % <b>Linalool:</b> 0.8 % <b>Caryophyllene:</b> 13.8 %	<b>Farnesene:</b> 0.3 % <b>Humulene:</b> 31.8 % <b>Geraniol:</b> 0.3 %
<b>LEAD:</b>	< 1.0 ppm	passes test
<b>ARSENIC:</b>	< 0.5 ppm	passes test
<b>CADMIUM:</b>	< 0.05 ppm	passes test
<b>TOTAL HEAVY METALS:</b>	< 10 ppm (as Pb)	passes test

  
Missy Raver  
Quality Control Manager

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