306 Division Street
Yakima, Wa 98902
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YAKIMA CHIEF HOPS™

YAKIMA CHIEF HOPS LLC, Inc

Certificate of Analysis

Supplier: **Yakima Chief Hops**
306 Division Street
Yakima, WA 98902

Date of Issue: 31-Oct-2024

Product Name: **Cryo Hops® Hop Pellets**

Lot Number: PC1-JUY202104
Variety: Elani®
Crop Year: 2024
Production Date: October 2024
Best Use Before Date: October 2027

Characteristic	Typical Analysis	Actual Analysis
Alpha Acids:	5.0 - 30.0% (w/w) UV Spectro by ASBC HOPS - 6A	13.6%
Beta Acids:	5.0 - 20.0% (w/w) UV Spectro by ASBC HOPS - 6A	16.0%
Hop Storage Index	Varies by Variety and Time from Harvest Hop Storage Index by ASBC Hops - 12	0.251
Oil by Distillation:	Varies by Variety ASBC Hops - 13 (%v/w)	3.5

Oil Profile by GC, EBC Analytica V 7.12:

B-Pinene:	0.9 %	**Farnesene:**	3.8 %
Myrcene:	72.0 %	**Humulene:**	7.8 %
Linalool:	0.4 %	**Geraniol:**	0.2 %
Caryophyllene:	3.3 %		

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

Elvira Romero
Director, Global Quality Systems