



YAKIMA CHIEF HOPS SA

Certificate of Analysis

Supplier: Yakima Chief Hops SA
45, rue des Sablières/Unit 66
1435 Mont-Saint-Guibert
Belgium

Date of Issue: 20-Feb-2023

Product Name: Type 90 Hop Pellets


Lot Number: P92-HUCIT2053
Variety: Citra® Brand, HBC 394
Crop Year: 2022
Production Date: September 2022
Best Use Before: September 2025

<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	13.5%
Oil by Distillation:	Varies by Variety ASBC Hops - 13 (%v/w)	1.7%

Oil Profile by GC, EBC Analytica V 7.12:

B-Pinene: 0.7 %	Farnesene: 0.1%
Myrcene: 58.7 %	Humulene: 12.1%
Linalool: 0.9 %	Geraniol: 0.7%
Caryophyllene: 7.8 %	

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
VP of Quality