



YAKIMA CHIEF HOPS SA, Inc.

Certificate of Analysis

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

Date of Issue: 24-Mar-2023

Product Name: Leaf Hops, Packed

Lot Number: WL1-HUSIM7007
Variety: Simcoe® Brand, YCR 14
Crop Year: 2022
Production Date: October 2022
Best Use Before: October 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	13.1%
Oil by Distillation:	Varies by Variety ASBC Hops - 13 (%v/w)	2.0%

Oil Profile by GC, EBC Analytica V 7.12:

B-Pinene: 0.8 %	Farnesene: 0.2%
Myrcene: 52.8 %	Humulene: 15.4%
Linalool: 0.5 %	Geraniol: 0.9%
Caryophyllene: 8.5 %	

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
Sr. VP Grower Relations, Quality & ERM