



## CERTIFICATE OF ANALYSIS

CUSTOMER NAME:  
**Lupulino, CZ**VARIETY:  
**Sabro® HBC 438 c.v.**CROP YEAR:  
**2021**SALES ORDER NUMBER:  
**V83332**NET WT (kgs):  
**100****Description**

Hop Pellets are produced from raw hops and can be added to the kettle to provide bitterness and a hop character that is indistinguishable from that achieved using raw hops. Hop Pellets provide improved homogeneity, better storage stability and reduced storage/transport costs compared to raw hops.

**Storage**

Hop Pellets should be stored cool at 0 – 5 °C (32 - 41 °F). Pellets are best used within 3 years after processing. If stored at –20 °C (-4 °F), pellets should be used within 5 years. Foils, once opened, use within a few days.

**Chemical Analysis**

<u>Characteristic</u>	<u>Analysis Result</u>	<u>Method</u>
Alpha Acids	15,3 %	ASBC Spectrophotometric
HSI	0,302	ASBC Spectrophotometric
Oil Content	2,2 ml/100g.	ASBC Hops-13
Alpha Acids	13,7 %	EBC 7.4 LCV
Moisture	8,3 %	ASBC Hops-4C

**FOIL MARKS:**

CROP 2021  
SABRO® HBC 438 c.v.  
5-KG / 11-LB NET  
BATCH NO. I-11129-1

**CARTON MARKS:**

CROP 2021  
SABRO® HBC 438 c.v. TYPE 90 PELLETS  
ALPHA 15,3% ASBC SPECTRO  
SUPPLIER/PELLETISOR:  
JOHN I. HAAS, INC.  
DATE OF PELLETIZING: DEC 2021  
BATCH NO. I-11129-1  
20-KG / 44-LB CARTON (4 X 5-KG / 11-LB FOILS)  
MADE IN THE USA

Pesticide residues are monitored in hop products under our new BarthHaas Quality Control Guarantee.  
For more information on this program, please visit our website at, [www.BarthHaas.com](http://www.BarthHaas.com).

**Released By:**

Cheryl Kroll, Pellet Plant

**Signature:****Date:**

January 7, 2022

**Additional Information:**

Batch No: I-11129-1

Grower Lot No.: 21-WA363-003

Manufactured by John I. Haas, Inc., a member of the BarthHaas Group. 1600 River Rd., Yakima, WA 98902 Telephone: (509) 469-4000



HAAS™

BarthHaas®

