

**CERTIFICATE OF ANALYSIS**CUSTOMER NAME:
Lupulino, CZVARIETY:
CentennialCROP YEAR:
2020SALES ORDER NUMBER:
V83291NET WT (kgs):
200**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	9,5 %	ASBC Spectrophotometric
HSI	0,347	ASBC Spectrophotometric
Oil Content	2,1 ml/100g.	ASBC Hops-13
Alpha Acids	8,7 %	EBC 7.4 LCV
Moisture	9,1 %	ASBC Hops-4C

FOIL MARKS:

CROP 2020
CENTENNIAL
5-KG / 11-LB NET
BATCH NO. I-00663-1

CARTON MARKS:

CROP 2020
CENTENNIAL TYPE 90 PELLETS
ALPHA 9,5% ASBC SPECTRO
SUPPLIER/PELLETISOR:
JOHN I. HAAS, INC.
DATE OF PELLETIZING: NOV 2020
BATCH NO. I-00663-1
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.

**Released By:**

Cheryl Kroll, Pellet Plant

Signature:**Date:**

March 16, 2021

Additional Information:

Batch No: I-00663-1

Grower Lot Nos.: 20-OR208-222 20-WA340-018
20-OR250-040 20-WA383-001
20-OR265-051 20-WA432-409
20-WA340-016

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