CERTIFICATE OF ANALYSIS

CUSTOMER NAME: **Hops Connect - Hops Trading Co**

VARIETY: **Amarillo® VGXP01 c.v.**

CROP YEAR: **2021**

SALES ORDER NUMBER: **21-HP-1040802-1**, **21-HP-1039953-1**, **21-HP-1041795-1**, **21-HP-1041866-1**

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

Characteristic	Analysis Result	Method
Alpha Acids	6.6 %	ASBC Spectrophotometric
Beta Acids	5.3 %	ASBC Spectrophotometric
HSI	0.348	ASBC Spectrophotometric
Oil Content	0.9 ml/100g.	ASBC Hops - 13
Moisture	8.3 %	ASBC Hops - 4C

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:	*Signature:*	*Date:*
Cheryl Kroll, Pellet Plant	Cheryl M Kroll	February 11, 2022

Additional Information:

Batch No: I-11599-1

Grower Lot Nos.: 21-ID105-018, 21-ID113-004, 21-WA337-012, 21-WA337-014, 21-WA346-017, 21-WA358-017, 21-WA358-019, 21-WA358-022