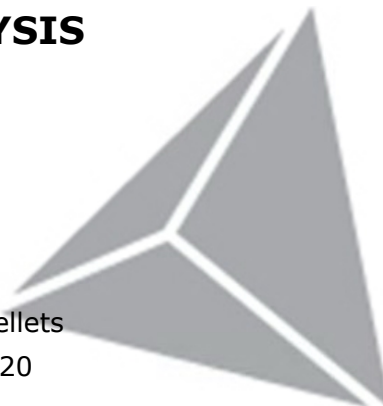


CERTIFICATE OF ANALYSIS

February 06, 2020

BSG Lot Number: 19C4CEN11
Variety: US Centennial
Crop Year: 2019
Product Type: Type 90 Hop Pellets
Analysis Date: January 31, 2020



Measurement Type	Data Value	Analysis Method
ALPHA-ACIDS:	9.3%	ASBC Spectrophotometric
BETA-ACIDS:	3.8%	ASBC Spectrophotometric
HSI:	0.326	ASBC Spectrophotometric
Total Oils:	2.50ml/100g	ASBC Hops - 13
B-Pinene:	0.3%	ASBC Hops - 17
Myrcene:	43.2%	ASBC Hops - 17
Linalool:	0.6%	ASBC Hops - 17
Caryophyllene:	2.8%	ASBC Hops - 17
Geraniol:	2.2%	ASBC Hops - 17
Farnesene:	13.0%	ASBC Hops - 17
Other Oils:	37.9%	ASBC Hops - 17

Analyst: LMILLAR

Certified By

