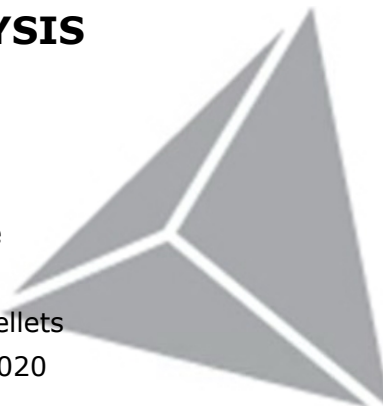


## CERTIFICATE OF ANALYSIS

February 12, 2020

**BSG Lot Number:** 19V1SOR44  
**Variety:** US Sorachi Ace  
**Crop Year:** 2019  
**Product Type:** Type 90 Hop Pellets  
**Analysis Date:** February 11, 2020



Measurement Type	Data Value	Analysis Method
ALPHA-ACIDS:	11.0%	ASBC Spectrophotometric
BETA-ACIDS:	6.0%	ASBC Spectrophotometric
HSI:	0.307	ASBC Spectrophotometric
Total Oils:	2.29ml/100g	ASBC Hops - 13
B-Pinene:	0.8%	ASBC Hops - 17
Myrcene:	50.2%	ASBC Hops - 17
Linalool:	0.4%	ASBC Hops - 17
Caryophyllene:	8.4%	ASBC Hops - 17
Geraniol:	1.4%	ASBC Hops - 17
Farnesene:	9.6%	ASBC Hops - 17
Other Oils:	29.2%	ASBC Hops - 17

Analyst: LMILLAR

Certified By

