



CERTIFICATE OF ANALYSIS

Lot Number ELD2023-CLS-1
Variety EL DORADO
Crop Year 2023
Product Type T90 HOP PELLET
Analysis Date 11/30/23

Measurement Type	Data Value	Analysis Method
Alpha Acids:	12.0%	ASBC Spectrophotometric
Beta Acids:	5.2%	ASBC Spectrophotometric
HSI:	0.277	ASBC Spectrophotometric
B-Pinene:	1.00%	ASBC Hops-17
Caryophyllene:	9.00%	ASBC Hops-17
Humulene:	10.02%	ASBC Hops-17
Linalool:	0	ASBC Hops-17
Myrcene:	47.20%	ASBC Hops-17
Other Oils:	32.78%	ASBC Hops-17
Total Oils:	2.9ml	ASBC Hops-13

Grower Lot Numbers:

23-MT406-4, 23-WA360-022, 23-WA360-023, 23-WA405-019, 23-WA405-048A

Harvest Dates:

9/21/2023, 9/18/2023, 9/18/2023, 9/7/2023, 9/19/2023

Growing Season

The 2023 growing season began with unusually cold temperatures in April followed by an influx of heat in May and a cooler June, causing early bloom in certain varieties like Centennial. This premature flowering resulted in a mix of mature and juvenile cones, leading to lower-than-expected yields for those varieties. Despite this, affected varieties exhibited average aromas, while unaffected varieties yielded average to above-average with strong aroma quality. July and August in the Yakima Valley were notably milder, presenting near-perfect conditions for the growing season supported by a healthy water supply.

Processed By BSG

Visit www.clsfarms.com or email hops@clsfarms.com for more information.

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Certified By: S. Dale