

Postharvest Physiology Lab 22201 W. Innovation Drive | Olathe, KS 66061 State Institutional License #: KDA-0546469709

Industrial Hemp | Certificate of Analysis

Client Name: GrowPoint, Inc. (Krieger)

Contact:

515-370-1552

License Number:

S0047

License State: lowa

Sample ID: GP-04

4.93% Moisture

Submitted: 9/25/20

Cultivar: Serenity

Analyzed: 9/28/20 Matrix:

Flower

Cannabinoid Profile (% dry weight basis)				
Basic Panel Cannabinoids				
Δ-9-ΤΗC	<lloq< th=""><th>CBD</th><th>$0.02\% \pm 0.00$</th></lloq<>	CBD	$0.02\% \pm 0.00$	
THCA	$0.06\% \pm 0.01$	CBDA	$0.17\% \pm 0.03$	
CBN	<lloq< th=""><th></th><th>1000</th></lloq<>		1000	
	Expanded Pan	el Cannabinoid	S Participation	
CBG	0.41% ± 0.01	CBDVA	<lloq< th=""></lloq<>	
CBGA	$7.68\% \pm 0.03$	THCV	<lloq< th=""></lloq<>	
CBC	$0.13\% \pm 0.00$	THCVA	<lloq< th=""></lloq<>	
CBCA	0.44% ± 0.01	CBL	<lloq< th=""></lloq<>	
Δ-8-THC	<lloq< th=""><th>CBLA</th><th><lloq< th=""></lloq<></th></lloq<>	CBLA	<lloq< th=""></lloq<>	
CBDV	<lloq< th=""><th></th><th>4- 39</th></lloq<>		4- 39	

Methods: Cannabinoid profiling is performed using a Waters ACQUITY UPLC® by comparing submitted samples to pure analytical standards. Values presented herein are mean ± standard deviation of at least three independent measurements.

Calcu	ılations (Expanded Panel)	
Total THC	Δ -9-THC + 0.877 x THCA = 0.05% ± 0.01	
Total CBD	CBD + 0.877 x CBDA = 0.17% ± 0.04	
Total CBG	CBG + 0.877 x CBGA = 7.14 % ± 0.04	
Total CBC	CBC + 0.877 x CBCA = 0.52% ± 0.01	
Total Tested	8.91% ± 0.09%	

Interpretation of Results

The sample we received from GrowPoint, Inc on 09/25/20 tested at 0.05% total THC, 0.17% total CBD, 7.14% total CBG, and 0.52% total CBC on a dry weight basis with a total cannabinoid content of 8.91%.

Analysis performed by: Signed: 09/29/20

Patrick Abeli, Lab Manger

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Reviewed by: Signed: 09/29/20

Tricia Jenkins, Graduate Research Assista

Disclaimer: The results presented herein are certified only for the sample named on the date and location from which it was collected by the customer. Due to environmental and genetic factors, and sampling differences, these results may not reflect the values obtained from other research units or the value obtained at final harvest. Our testing procedures are validated through a rigorous internal and external process and were found to conform to our standards of analysis on the date performed; details available upon request at: phone: 913-307-7393 or ksuhemp@ksu.edu. ND: Not determined for this sample, <LLOQ: below the lower limit of quantification. Updated 08/28/20 PA