



Certificate of Analysis

Name of Client:	
Sample Name:	Lifter Flower
Date of Analysis:	11-20-2019
Batch Number:	20191120-4

Results		
	wt %	mg/g
Cannabidiolic acid - CBDA	16.16%	161.6
Cannabigerol - CBG	0.12%	1.2
Cannabidiol - CBD	0.39%	3.9
Cannabinol - CBN	ND	ND
Delta-9-Tetrahydrocannabinol - d9-THC	0.12%	1.2
Tetrahydrocannabinolic acid - THCA	0.57%	5.7

CBD and THC Equivalents		
	wt %	mg/g
CBD Equivalents	14.56%	145.6
THC Equivalents	0.62%	6.2

CBD:THC Ratio	23:1
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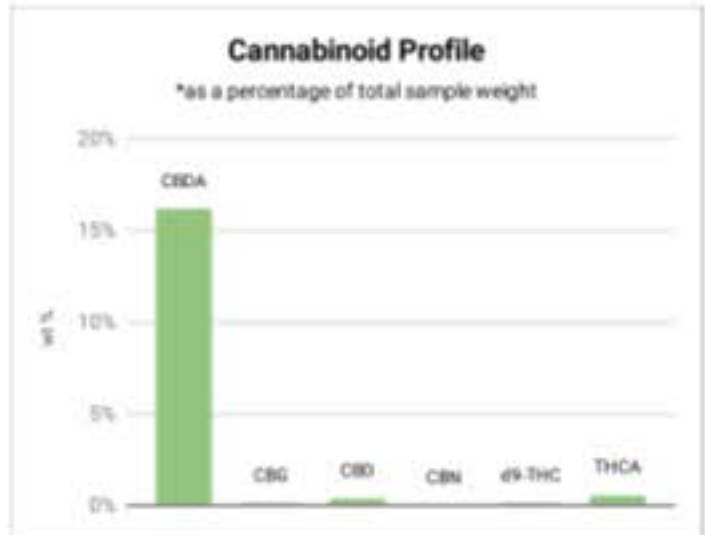
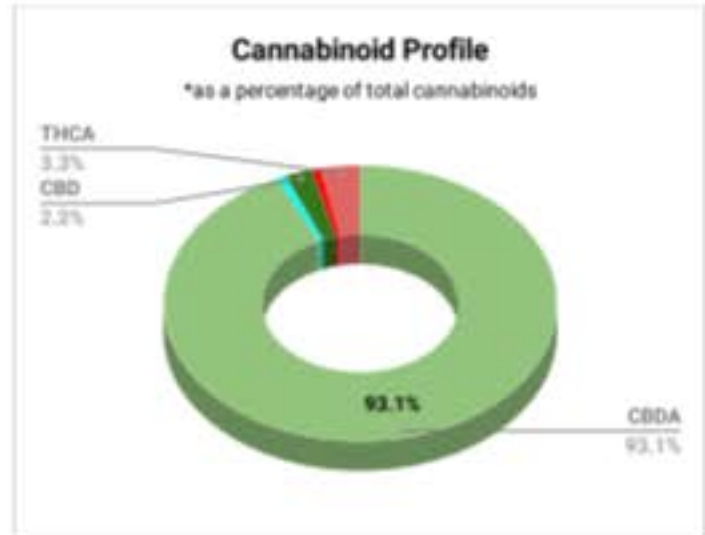
CBD and THC Equivalents Explained

CBD Equivalents = 0.877*CBDA + CBD
 THC Equivalents = 0.877*THCA + d9-THC

Upon heating CBDA and THCA transform into CBD and d9-THC, respectively. This process is called decarboxylation because a carboxyl group is lost in the process. It is standard to calculate the actual weight percent/concentration of both CBD and THC as the weight percent/concentration assuming all of the CBDA and THCA are decarboxylated.

Lab Personnel Signature:	<i>Benjamin Kluge</i>
Date:	11-20-2019

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Details of Testing

High performance liquid chromatography (HPLC) was used to determine concentrations of CBD, CBG, CBDA, CBN, d9-THC, and THCA. Any result reported back as ND (not detected) is below our lower limit of detection. Our lower limit of detection is 0.005%. Results are reported on a dry weight basis.

Disclaimer

These results are solely for the purposes of research and development. This report is only for the sample listed above and may not be reproduced except in its entirety.



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State of Wisconsin Industrial Hemp Pilot Program
Fit for Commerce Certificate

Wis. Stat. § 94.55, Wis. Admin. Code ch. ATCP 22

The industrial hemp variety Lifter, for License Number 478500-HG, from greenhouse/field location Field 2, GPS Coordinates N45.10227 W-89.59306 has tested below 0.3% THC and is in compliance with *Wis. Stat. § 94.55 and Wis. Admin. Code ch. ATCP 22* promulgated under the authority of *Section 7606 of the Agricultural Act of 2014 (H.R. 2642; Pub.L 113-79, also known as the 2014 U.S. Farm Bill)*.

Wis. Admin Code §§ ATCP 22.12 and 22.13 require a copy of this certificate to accompany the industrial hemp specified above to all licensed industrial hemp processors with whom the licensed industrial hemp grower does business. A licensed grower or licensed processor transporting industrial hemp must have the following in its possession:

- a) A copy of its grower license or processor license.
- b) A fit for commerce certificate as required under *ATCP 22.12*

BY:

A handwritten signature in black ink, appearing to read "Brian D. K.", written over a horizontal line.

DATE: 9/11/2019