

## Certificate of Analysis

Name of Client:	
Sample Name:	Titan Final
Date of Analysis:	11-12-2019
Batch Number:	20191112-3

### Results

	wt %	mg/g
Cannabidiolic acid - CBDA	14.70%	147.0
Cannabigerol - CBG	ND	ND
Cannabidiol - CBD	0.14%	1.4
Cannabinol - CBN	ND	ND
Delta-9-Tetrahydrocannabinol - d9-THC	ND	ND
Tetrahydrocannabinolic acid - THCA	0.48%	4.8

### CBD and THC Equivalents

	wt %	mg/g
CBD Equivalents	13.03%	130.3
THC Equivalents	0.42%	4.2
<b>CBD:THC Ratio</b>	<b>30:1</b>	

### 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:

*Benjamin Kluge*

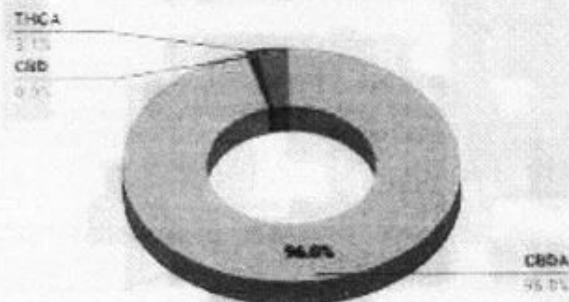
Date:

11-12-2019

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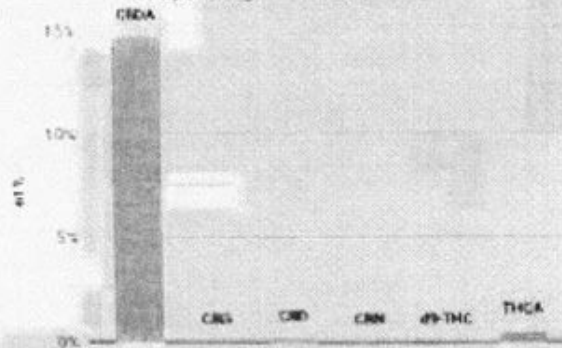
### Cannabinoid Profile

\* as a percentage of total cannabinoids



### Cannabinoid Profile

\* as a percentage of total sample weight



### 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.