



### Certificate of Analysis

Name of Client:	Sarah Kelley (Sarah's Garden)
Sample Name:	CBD Soap
Date of Analysis	5/31/2019
Batch Number:	053119-1

Results		
	wt %	mg/g
Cannabidiolic acid - CBDA	0.04%	0.4
Cannabigerol - CBG	ND	ND
Cannabidiol - CBD	0.03%	0.3
Cannabinol - CBN	ND	ND
Delta-9-Tetrahydrocannabinol - d9-THC	ND	ND
Tetrahydrocannabinolic acid - THCA	ND	ND

CBD and THC Equivalents		
	wt %	mg/g
CBD Equivalents	0.07%	0.7
THC Equivalents	ND	ND

CBD:THC Ratio	N/A
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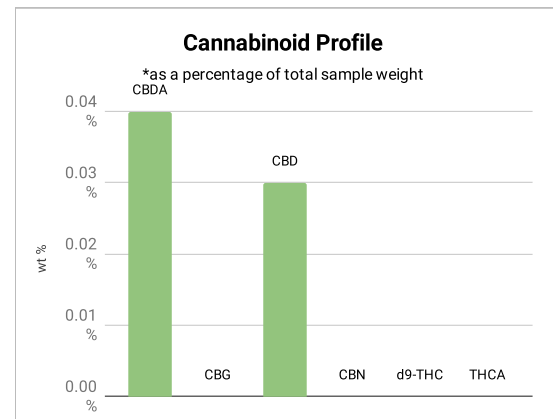
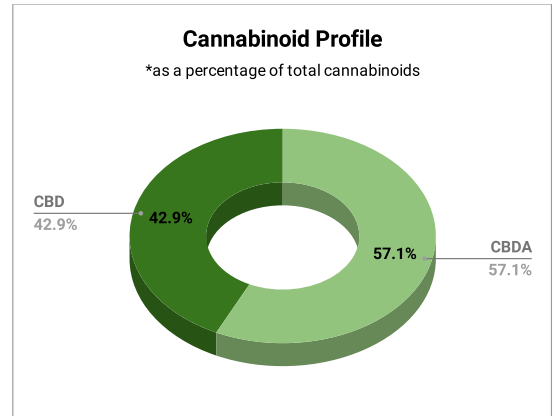
#### CBD and THC Equivalents Explained

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: *Griffin Lynch*  
 Date: 5/31/2019

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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.