



Certificate of Analysis (COA)

Name of Client: **Elevated Hemp Solutions**
Sample Name: **Happy Place 500 mg Tincture**
Date of Analysis: **03/01/2019**
Batch Number: **010319-1**

Results

	wt %	mg/g
CBDA	0.0%	0
CBD	1.7%	17
CBN	0.0%	0
d9-THC	0.1%	1
THCA	0.0%	0

Tincture Volume (mL): **30**

CBD Amount (mg): **501**

Details of Testing

High performance liquid chromatography (HPLC) was used to determine concentrations of CBD, CBDA, CBN, d9-THC, and THCA. Any result reported back at 0.0% is below our lower limit of detection. Our lower limit of detection is 0.005%.

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CBD and THC Equivalents

	wt %	mg/g
CBD Equivalents	1.7%	17
THC Equivalents	0.1%	1

CBD and THC Equivalents Explained

CBD Equivalents = $0.877 \times \text{CBDA} + \text{CBD}$

THC Equivalents = $0.877 \times \text{THCA} + \text{d9-THC}$

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: **Andrew Gould**

Digitally signed by
Andrew Gould
Date: 2019.03.04
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