

**Sample Name: FOCUS Beverage Drops**

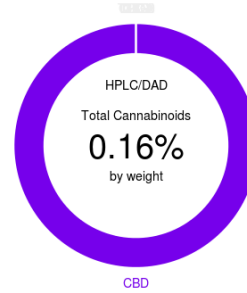
Client: betruwellness  
 Sample Type: Liquid  
 Strain: Unknown  
 Product Weight: 69.46 g

Submitted: March 25, 2019  
 Tested: March 25, 2019  
 Expires: March 25, 2020  
 Submitted for: HPLC, Chemres, Micro, Terpenes,

**Profiling by Liquid Chromatography - Pass**

(SOP-014) | Date Performed: 2019-03-30

Cannabinoid	Percent	mg/g	Total mg	mg/svg	mg/mL	LO Q (mg/g)	LOD (mg/g)	L.C. <sup>1</sup>	Status
d9-THC	ND <sup>1</sup>	ND <sup>1</sup>	0.00	0.00	ND <sup>1</sup>	0.30	0.10	-	Pass
d8-THC	ND <sup>1</sup>	ND <sup>1</sup>	0.00	0.00	ND <sup>1</sup>	0.30	0.10	-	Pass
THCA	ND <sup>1</sup>	ND <sup>1</sup>	0.00	0.00	ND <sup>1</sup>	0.30	0.10	-	Pass
THCV	ND <sup>1</sup>	ND <sup>1</sup>	0.00	0.00	ND <sup>1</sup>	0.30	0.10	-	Pass
CBG	ND <sup>1</sup>	ND <sup>1</sup>	0.00	0.00	ND <sup>1</sup>	0.30	0.10	-	Pass
CBGA	ND <sup>1</sup>	ND <sup>1</sup>	0.00	0.00	ND <sup>1</sup>	0.30	0.10	-	Pass
CBN	ND <sup>1</sup>	ND <sup>1</sup>	0.00	0.00	ND <sup>1</sup>	0.30	0.10	-	Pass
CBD	0.16	1.56	108.66	0.00	1.67	0.30	0.10	-	Pass
CBDV	ND <sup>1</sup>	ND <sup>1</sup>	0.00	0.00	ND <sup>1</sup>	0.30	0.10	-	Pass
CBDA	ND <sup>1</sup>	ND <sup>1</sup>	0.00	0.00	ND <sup>1</sup>	0.30	0.10	-	Pass
<b>Total</b>	0.16	1.56	108.66	NA	1.67	NA	NA	-	Pass
<b>Total THC</b>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	-	ND <sup>1</sup>	-	-	-	Pass
<b>Total CBD</b>	0.16	1.56	108.66	-	1.67	-	-	-	Pass



Product Density (HPLC) = 1,069.5 mg/ml  
 -0% Decarboxylated THC  
<sup>1</sup>L.C. = Label Claim in mg/g  
 Total THC = ((THCA\*0.877)+ d9-THC)  
 Total CBD = ((CBDA\*0.877)+ CBD)

**Microbiological Screening - Pass**

Petrifilm screening for microbiological contamination. [SOP-009] | Date Performed: 2019-03-25

	Analysis	Limit of Detection	Action Limits	Status
Shiga-Toxin E. Coli	ND	< 1 cfu/g	1 cfu/g	Pass
Salmonella	ND	< 1 cfu/g	1 cfu/g	Pass
Pseudomonas	ND	< 1 cfu/g	1 cfu/g	Pass
APC	ND	< 1 cfu/g	100000 cfu/g	Pass
E. Coli	ND	< 1 cfu/g	10 cfu/g	Pass
Coliform	ND	< 1 cfu/g	500 cfu/g	Pass
Yeast & Mold	ND	< 1 cfu/g	10000 cfu/g	Pass

\*TNTC = Too Numerous To Count

<sup>1</sup>ND = Not Detected

**Residual Solvent Analysis -**

Analysis of residual solvents. [SOP-011] | Date Performed:

Solvent	ug/g	Action Limit	LOQ (ug/g)	LOD (ug/g)	Status
Benzene	NT				
Chloroform	NT				
1,2-Dichloroethane	NT				
Ethylene Oxide	NT				
Methylene Chloride	NT				
Trichloroethylene	NT				
Acetone	NT				
Acetonitrile	NT				
Ethanol	NT				
Ethyl Acetate	NT				
Diethyl ether	NT				
Heptane	NT				
Hexane	NT				
Isopropanol	NT				
Methanol	NT				
N-Butane	NT				
Pentane	NT				
Propane	NT				
Toluene	NT				
Total Xylenes	NT				

\*ND = Not Detected

\*\*Client Limit is self-selected and will be replaced by official CA State limits when they become available

**Foreign Material Analysis -**

Analysis to determine whether foreign material is present | Date Performed:

Analysis	Status

CW uses its best efforts to deliver high-quality results and to verify that the data contained therein are based on sound scientific judgment. However, CW makes no warranties or claims to that effect and further shall not be liable for any damage or misrepresentation that may result from the use or misuse of these data in any way. Further, CW makes no claims regarding the representativeness of the analyzed sample to the larger batch from which it was taken. The limit of liability accepted by CW Analytical is limited to the total amount invoiced for services provided. As part of our strict confidentiality policy, CW can only discuss results with the original client of record. Comments? lab@cwanalytical.com



This sample was tested by CW Analytical Laboratories. Results are valid through the expiration date indicated.

*Robert W Martin, PhD*  
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**Chemical Residue Screening - Pass**

Targeted analysis of chemical residues. [SOP-017] | Date Performed: 2019-03-26

	ug/g	LOQ (ug/g)	LOD (ug/g)	Action Limit	Status		ug/g	LOQ (ug/g)	LOD (ug/g)	Action Limit	Status
Abamectin	ND <sup>1</sup>	0.02	0.01	0.30	Pass	Fludioxonil	ND <sup>1</sup>	0.01	0.01	30.00	Pass
Acephate	ND <sup>1</sup>	0.12	0.04	5.00	Pass	Hexythiazox	ND <sup>1</sup>	0.02	0.01	2.00	Pass
Acequinocyl	ND <sup>1</sup>	0.01	0.01	4.00	Pass	Imazalil	ND <sup>1</sup>	0.00	0.00	0.00	Pass
Acetamiprid	ND <sup>1</sup>	0.01	0.01	5.00	Pass	Imidacloprid	ND <sup>1</sup>	0.01	0.01	3.00	Pass
Aldicarb	ND <sup>1</sup>	0.02	0.01	0.00	Pass	Kresoxim-methyl	ND <sup>1</sup>	0.01	0.01	1.00	Pass
Azoxystrobin	ND <sup>1</sup>	0.01	0.01	40.00	Pass	Malathion	ND <sup>1</sup>	0.03	0.01	5.00	Pass
Bifenazate	ND <sup>1</sup>	0.01	0.01	5.00	Pass	Metalaxyl	ND <sup>1</sup>	0.00	0.00	15.00	Pass
Bifenthrin	ND <sup>1</sup>	0.07	0.02	0.50	Pass	Methiocarb	ND <sup>1</sup>	0.01	0.01	0.00	Pass
Boscalid	ND <sup>1</sup>	0.01	0.01	10.00	Pass	Methomyl	ND <sup>1</sup>	0.01	0.01	0.10	Pass
Captan	ND <sup>1</sup>	0.03	0.01	5.00	Pass	Mevinphos	ND <sup>1</sup>	0.01	0.01	0.00	Pass
Carbaryl	ND <sup>1</sup>	0.01	0.01	0.50	Pass	Myclobutanil	ND <sup>1</sup>	0.01	0.01	9.00	Pass
Carbofuran	ND <sup>1</sup>	0.01	0.01	0.00	Pass	Naled	ND <sup>1</sup>	0.02	0.01	0.50	Pass
Chlorantraniliprole	ND <sup>1</sup>	0.02	0.01	40.00	Pass	Oxamyl	ND <sup>1</sup>	0.02	0.01	0.20	Pass
Chlordane	ND <sup>1</sup>	0.05	0.02	0.00	Pass	Paclobutrazol	ND <sup>1</sup>	0.01	0.01	0.00	Pass
Chlorfenapyr	ND <sup>1</sup>	0.02	0.01	0.00	Pass	Parathion methyl	ND <sup>1</sup>	0.06	0.02	0.00	Pass
Chlorpyrifos	ND <sup>1</sup>	0.05	0.02	0.00	Pass	PCNB	ND <sup>1</sup>	0.02	0.01	0.20	Pass
Clofentezine	ND <sup>1</sup>	0.02	0.01	0.50	Pass	Permethrin	ND <sup>1</sup>	0.02	0.01	20.00	Pass
Coumaphos	ND <sup>1</sup>	0.02	0.01	0.00	Pass	Phosmet	ND <sup>1</sup>	0.01	0.01	0.20	Pass
Cyfluthrin	ND <sup>1</sup>	0.05	0.02	1.00	Pass	Piperonyl butoxide	ND <sup>1</sup>	0.01	0.01	8.00	Pass
Cypermethrin	ND <sup>1</sup>	0.04	0.01	1.00	Pass	Prallethrin	ND <sup>1</sup>	0.03	0.01	0.40	Pass
Daminozide	ND <sup>1</sup>	0.02	0.01	0.00	Pass	Propiconazole	ND <sup>1</sup>	0.01	0.01	20.00	Pass
Diazinon	ND <sup>1</sup>	0.01	0.01	0.20	Pass	Propoxure	ND <sup>1</sup>	0.01	0.01	0.00	Pass
Dichlorvos	ND <sup>1</sup>	0.01	0.01	0.00	Pass	Pyrethrin	ND <sup>1</sup>	0.04	0.01	1.00	Pass
Dimethoate	ND <sup>1</sup>	0.02	0.01	0.00	Pass	Pyridaben	ND <sup>1</sup>	0.00	0.00	15.00	Pass
Dimethomorph	ND <sup>1</sup>	0.01	0.01	20.00	Pass	Spinetoram	ND <sup>1</sup>	0.01	0.01	3.00	Pass
Ethoprophos	ND <sup>1</sup>	0.02	0.01	0.00	Pass	Spinosad	ND <sup>1</sup>	0.01	0.01	3.00	Pass
Etofenprox	ND <sup>1</sup>	0.01	0.01	0.00	Pass	Spiromesifen	ND <sup>1</sup>	0.03	0.01	12.00	Pass
Etoxazole	ND <sup>1</sup>	0.01	0.01	1.50	Pass	Spirotetramat	ND <sup>1</sup>	0.01	0.01	13.00	Pass
Fenhexamid	ND <sup>1</sup>	0.01	0.01	10.00	Pass	Spiroxamine	ND <sup>1</sup>	0.01	0.01	0.00	Pass
Fenoxycarb	ND <sup>1</sup>	0.01	0.01	0.00	Pass	Tebuconazole	ND <sup>1</sup>	0.03	0.01	2.00	Pass
Fenpyroximate	ND <sup>1</sup>	0.01	0.01	2.00	Pass	Thiacloprid	ND <sup>1</sup>	0.01	0.01	0.00	Pass
Fipronil	ND <sup>1</sup>	0.02	0.01	0.00	Pass	Thiamethoxam	ND <sup>1</sup>	0.01	0.01	4.50	Pass
Flonicamid	ND <sup>1</sup>	0.02	0.01	0.20	Pass	Trifloxystrobin	ND <sup>1</sup>	0.01	0.01	30.00	Pass

<sup>1</sup>ND = Not Detected  
 NT = Not Tested

**Heavy Metals Profiling - Pass**

Analysis of Heavy Metals. [SOP-012] | Date Performed: 2019-03-27

	ug/g	LOQ(ug/g)	LOD(ug/g)	Action Limit	Status
Cadmium	ND <sup>1</sup>	0.03	0.01	0.5	Pass
Lead	ND <sup>1</sup>	0.12	0.04	0.5	Pass
Arsenic	ND <sup>1</sup>	0.06	0.02	1.5	Pass
Mercury	ND <sup>1</sup>	0.03	0.01	3.0	Pass

<sup>1</sup>ND = Not Detected

**Water Activity -**

Analysis to determine water activity | Date Performed:

Aw	Action Limit (Aw)	Status

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Strain: Unknown

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## Mycotoxin Screening -

Analysis of Mycotoxins. | Date Performed:

		LOQ (mg/g)	LOD (mg/g)	Status
Aflatoxin B1	NT			
aflatoxin B2	NT			
Aflatoxin G1	NT			
Aflatoxin G2	NT			
Ochratoxin A	NT			

<sup>1</sup>ND = Not Detected

## Terpene Profiling - Pass

Analysis of terpenes. [SOP-012] | Date Performed: 2019-03-31

	Percent	mg/g	LOQ (mg/g)	LOD (mg/g)	L.C. <sup>2</sup>	Status
a-Pinene	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
Camphene	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
b-Myrcene	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
b-Pinene	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
d3-Carene	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
a-Terpinene	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
a-Ocimene	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
d-Limonene	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
p-Cymene	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
b-Ocimene	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
g-Terpinene	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
Terpinolene	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
Linalool	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
Isopulegol	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
Geraniol	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
b-Caryophyllene	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
a-Caryophyllene	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
cis-Nerolidol	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
trans-Nerolidol	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
guaialol	ND <sup>1</sup>	0.00	0.1	0.03	-	Pass
a-Bisabolol	NT <sup>3</sup>	0.00	0.1	0.03	-	Pass

## Total Terpenes

0.0 Percent

<sup>1</sup>ND = Not Detected<sup>2</sup>L.C. = Label Claim