

**Sample Name: Treatibles hemp oil batch 105**

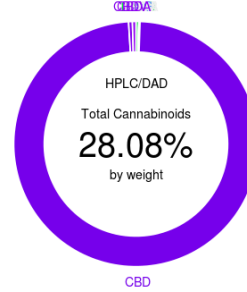
Client: treatibles  
 Sample Type: Infusedoil  
 Strain: Unknown  
 Product Weight: 10.14 g

Submitted: September 26, 2019  
 Tested: September 26, 2019  
 Expires: September 26, 2020  
 Submitted for: HPLC, Chemres, Micro, Terpenes, Residual Solvent, Foreign Material,

**Profiling by Liquid Chromatography - Pass**

(SOP-014) | Date Performed: 2019-09-27

Cannabinoid	Percent	mg/g	Total mg	mg/svg	LOQ (mg/g)	LOD (mg/g)	L.C. <sup>1</sup>	Status
d9-THC	0.11	1.11	11.28	0.00	0.05	0.02	-	Pass
d8-THC	ND <sup>1</sup>	ND <sup>1</sup>	0.00	0.00	0.05	0.02	-	Pass
THCA	ND <sup>1</sup>	ND <sup>1</sup>	0.00	0.00	0.05	0.02	-	Pass
THCV	ND <sup>1</sup>	ND <sup>1</sup>	0.00	0.00	0.05	0.02	-	Pass
THCVA	ND <sup>1</sup>	ND <sup>1</sup>	0.00	0.00	0.05	0.02	-	Pass
CBG	0.04	0.43	4.38	0.00	0.05	0.02	-	Pass
CBGA	ND <sup>1</sup>	ND <sup>1</sup>	0.00	0.00	0.05	0.02	-	Pass
CBN	ND <sup>1</sup>	ND <sup>1</sup>	0.00	0.00	0.05	0.02	-	Pass
CBD	27.66	276.61	2,804.83	0.00	0.05	0.02	-	Pass
CBDV	0.14	1.37	13.87	0.00	0.05	0.02	-	Pass
CBDA	0.13	1.25	12.72	0.00	0.05	0.02	-	Pass
<b>Total</b>	<b>28.08</b>	<b>280.780</b>	<b>2,847.07</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	-	<b>Pass</b>
<b>Total THC</b>	<b>0.11</b>	<b>1.11</b>	<b>11.28</b>	-	-	-	-	<b>Pass</b>
<b>Total CBD</b>	<b>27.77</b>	<b>277.71</b>	<b>2,815.98</b>	-	-	-	-	<b>Pass</b>



HPLC/DAD results are not moisture normalized.

-100% 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: 2019-09-26

	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	0 cfu/g	Pass
APC	ND	< 1 cfu/g	100000 cfu/g	Pass
E. Coli	ND	< 1 cfu/g	100 cfu/g	Pass
Coliform	ND	< 1 cfu/g	100 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 - Pass**

Analysis of residual solvents. [SOP-011] | Date Performed: 2019-09-26

Solvent	ug/g	Action Limit (ug/g)	LOQ (ug/g)	LOD (ug/g)	Status
Benzene	ND <sup>1</sup>	1.0	1.00	0.33	Pass
Chloroform	ND <sup>1</sup>	1.0	1.00	0.33	Pass
1-2-Dichloroethane	ND <sup>1</sup>	1.0	1.00	0.33	Pass
Ethylene Oxide	ND <sup>1</sup>	1.0	1.00	0.33	Pass
Methylene Chloride	ND <sup>1</sup>	1.0	1.00	0.33	Pass
Trichloroethylene	ND <sup>1</sup>	1.0	1.00	0.33	Pass
Acetone	ND <sup>1</sup>	5000	150.00	10.00	Pass
Acetonitrile	ND <sup>1</sup>	410	6.00	2.30	Pass
Ethanol	ND <sup>1</sup>	5000	250.00	2.00	Pass
Ethyl Acetate	ND <sup>1</sup>	5000	250.00	2.00	Pass
Diethyl ether	ND <sup>1</sup>	5000	250.00	2.00	Pass
Heptane	ND <sup>1</sup>	5000	250.00	2.00	Pass
Hexane	ND <sup>1</sup>	290	6.00	2.00	Pass
Isopropanol	ND <sup>1</sup>	5000	50.00	10.00	Pass
Methanol	ND <sup>1</sup>	3000	50.00	10.00	Pass
N-Butane	ND <sup>1</sup>	5000	50.00	6.50	Pass
Pentane	<LOQ	5000	50.00	1.00	Pass
Propane	ND <sup>1</sup>	5000	200.00	10.00	Pass
Toluene	ND <sup>1</sup>	890	3.00	1.00	Pass
Total Xylenes	ND <sup>1</sup>	2170	3.00	1.00	Pass

\*ND = Not Detected

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

**Foreign Material Analysis - Pass**

Analysis to determine whether foreign material is present | Date Performed: 2019-09-26

Analysis	Status
Product within acceptable limits for all foreign material criteria.	Pass

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: 2019-09-27

	ug/g	LOQ (ug/g)	LOD (ug/g)	Action Limit (ug/g)	Status		ug/g	LOQ (ug/g)	LOD (ug/g)	Action Limit (ug/g)	Status
Abamectin	ND <sup>1</sup>	0.04	0.02	0.30	Pass	Fludioxonil	ND <sup>1</sup>	0.08	0.04	30.00	Pass
Acephate	ND <sup>1</sup>	0.08	0.04	5.00	Pass	Hexythiazox	ND <sup>1</sup>	0.04	0.02	2.00	Pass
Acequinocyl	ND <sup>1</sup>	0.04	0.02	4.00	Pass	Imazalil	ND <sup>1</sup>	0.04	0.02	0.00	Pass
Acetamiprid	ND <sup>1</sup>	0.02	0.01	5.00	Pass	Imidacloprid	ND <sup>1</sup>	0.10	0.04	3.00	Pass
Aldicarb	ND <sup>1</sup>	0.04	0.02	0.00	Pass	Kresoxim-methyl	ND <sup>1</sup>	0.10	0.04	1.00	Pass
Azoxystrobin	ND <sup>1</sup>	0.02	0.01	40.00	Pass	Malathion	ND <sup>1</sup>	0.04	0.02	5.00	Pass
Bifenazate	ND <sup>1</sup>	0.02	0.01	5.00	Pass	Metalaxyl	ND <sup>1</sup>	0.04	0.02	15.00	Pass
Bifenthrin	ND <sup>1</sup>	0.08	0.04	0.50	Pass	Methiocarb	ND <sup>1</sup>	0.04	0.02	0.00	Pass
Boscalid	ND <sup>1</sup>	0.04	0.02	10.00	Pass	Methomyl	ND <sup>1</sup>	0.08	0.04	0.10	Pass
Captan	ND <sup>1</sup>	0.04	0.02	5.00	Pass	Mevinphos	ND <sup>1</sup>	0.08	0.04	0.00	Pass
Carbaryl	ND <sup>1</sup>	0.04	0.02	0.50	Pass	Myclobutanil	ND <sup>1</sup>	0.10	0.04	9.00	Pass
Carbofuran	ND <sup>1</sup>	0.04	0.02	0.00	Pass	Naled	ND <sup>1</sup>	0.02	0.01	0.50	Pass
Chlorantraniliprole	ND <sup>1</sup>	0.08	0.04	40.00	Pass	Oxamyl	ND <sup>1</sup>	0.04	0.02	0.20	Pass
Chlordane	ND <sup>1</sup>	0.10	0.04	0.00	Pass	Paclobutrazol	ND <sup>1</sup>	0.04	0.02	0.00	Pass
Chlorfenapyr	ND <sup>1</sup>	0.10	0.04	0.00	Pass	Parathion methyl	ND <sup>1</sup>	0.04	0.02	0.00	Pass
Chlorpyrifos	ND <sup>1</sup>	0.08	0.04	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>	0.10	0.04	20.00	Pass
Coumaphos	ND <sup>1</sup>	0.04	0.02	0.00	Pass	Phosmet	ND <sup>1</sup>	0.04	0.02	0.20	Pass
Cyfluthrin	ND <sup>1</sup>	0.10	0.04	1.00	Pass	Piperonyl butoxide	ND <sup>1</sup>	0.10	0.04	8.00	Pass
Cypermethrin	ND <sup>1</sup>	0.10	0.04	1.00	Pass	Prallethrin	ND <sup>1</sup>	0.10	0.04	0.40	Pass
Daminozide	ND <sup>1</sup>	0.08	0.04	0.00	Pass	Propiconazole	ND <sup>1</sup>	0.08	0.04	20.00	Pass
Diazinon	ND <sup>1</sup>	0.02	0.01	0.20	Pass	Propoxur	ND <sup>1</sup>	0.02	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>	0.04	0.02	0.00	Pass	Pyridaben	ND <sup>1</sup>	0.04	0.02	15.00	Pass
Dimethomorph	ND <sup>1</sup>	0.04	0.02	20.00	Pass	Spinetoram	ND <sup>1</sup>	0.08	0.04	3.00	Pass
Ethoprophos	ND <sup>1</sup>	0.02	0.01	0.00	Pass	Spinosad	ND <sup>1</sup>	0.04	0.02	3.00	Pass
Etofenprox	ND <sup>1</sup>	0.04	0.02	0.00	Pass	Spiromesifen	ND <sup>1</sup>	0.08	0.04	12.00	Pass
Etoxazole	ND <sup>1</sup>	0.04	0.02	1.50	Pass	Spirotetramat	ND <sup>1</sup>	0.04	0.02	13.00	Pass
Fenhexamid	ND <sup>1</sup>	0.08	0.04	10.00	Pass	Spiroxamine	ND <sup>1</sup>	0.04	0.02	0.00	Pass
Fenoxycarb	ND <sup>1</sup>	0.04	0.02	0.00	Pass	Tebuconazole	ND <sup>1</sup>	0.08	0.04	2.00	Pass
Fenpyroximate	ND <sup>1</sup>	0.08	0.04	2.00	Pass	Thiacloprid	ND <sup>1</sup>	0.04	0.02	0.00	Pass
Fipronil	ND <sup>1</sup>	0.08	0.04	0.00	Pass	Thiamethoxam	ND <sup>1</sup>	0.04	0.02	4.50	Pass
Fonicamid	ND <sup>1</sup>	0.04	0.02	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: 2019-09-27

	ug/g	LOQ(ug/g)	LOD(ug/g)	Action Limit (ug/g)	Status
Cadmium	ND <sup>1</sup>	0.04	0.01	0.5	Pass
Lead	ND <sup>1</sup>	0.04	0.01	0.5	Pass
Arsenic	ND <sup>1</sup>	0.07	0.02	1.5	Pass
Mercury	ND <sup>1</sup>	0.05	0.02	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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**Mycotoxin Screening - Pass**

Analysis of Mycotoxins. | Date Performed: 2019-09-27

	ug/kg	LOQ (mg/g)	LOD (mg/g)	Status
Aflatoxin B1	ND <sup>1</sup>	3.9	1.3	Pass
aflatoxin B2	ND <sup>1</sup>	3.9	1.3	Pass
Aflatoxin G1	ND <sup>1</sup>	3.9	1.3	Pass
Aflatoxin G2	ND <sup>1</sup>	3.9	1.3	Pass
Ochratoxin A	ND <sup>1</sup>	5.7	1.9	Pass

<sup>1</sup>ND = Not Detected**Terpene Profiling - Pass**

Analysis of terpenes. [SOP-012] | Date Performed: 2019-09-27

	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
guaiol	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