

Sample Name: Topical
Client: treatibles
Sample Type: Topical
Strain: Unknown
Product Weight: 37.37 g

Submitted: January 24, 2020
Tested: January 24, 2020
Submitted for: HPLC, Chemres, Micro, Terpenes, Residual
Solvent, Foreign Material,



Profiling by Liquid Chromatography - Pass

(SOP-014) | Date Performed: 2020-01-26

Cannabinoid	Percent	mg/g	Total mg	mg/svg	LOQ (mg/g)	LOD (mg/g)	L.C. ¹	Status
d9-THC	ND ¹	ND ¹	0.00	0.00	0.05	0.02	-	Pass
d8-THC	ND ¹	ND ¹	0.00	0.00	0.05	0.02	-	Pass
THCA	ND ¹	ND ¹	0.00	0.00	0.05	0.02	-	Pass
THCV	ND ¹	ND ¹	0.00	0.00	0.05	0.02	-	Pass
THCVA	ND ¹	ND ¹	0.00	0.00	0.05	0.02	-	Pass
CBG	ND ¹	ND ¹	0.00	0.00	0.05	0.02	-	Pass
CBGA	ND ¹	ND ¹	0.00	0.00	0.05	0.02	-	Pass
CBN	ND ¹	ND ¹	0.00	0.00	0.05	0.02	-	Pass
CBD	0.20	2.03	75.70	0.00	0.05	0.02	-	Pass
CBDV	ND ¹	ND ¹	0.00	0.00	0.05	0.02	-	Pass
CBDA	ND ¹	ND ¹	0.00	0.00	0.05	0.02	-	Pass
Total	0.20	2.030	75.70	NA	NA	NA	-	Pass
Total THC	ND ¹	ND ¹	ND ¹	-	-	-	-	Pass
Total CBD	0.20	2.03	75.70	-	-	-	-	Pass

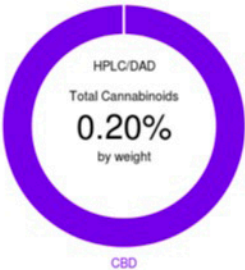
HPLC/DAD results are not moisture normalized.

~0% Decarboxylated THC

¹L.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: 2020-01-24

	Analysis	Limit of Detection	Action Limits	Status
Shiga-Toxin E. Coli	ND	< 1 cfu/g	100 cfu/g	Pass
Salmonella	ND	< 1 cfu/g	0 cfu/g	Pass

*TNTC = Too Numerous To Count

¹ND = Not Detected

Residual Solvent Analysis - Pass

Analysis of residual solvents. [SOP-011] | Date Performed: 2020-01-24

Solvent	ug/g	Action Limit (ug/g)	LOQ (ug/g)	LOD (ug/g)	Status
Benzene	ND ¹	2.0	1.00	0.33	Pass
Chloroform	ND ¹	400.0	1.00	0.33	Pass
1-2-Dichloroethane	ND ¹	1.0	1.00	0.33	Pass
Ethylene Oxide	ND ¹	1.0	1.00	0.33	Pass
Methylene Chloride	ND ¹	1.0	1.00	0.33	Pass
Trichloroethylene	ND ¹	1.0	1.00	0.33	Pass
Acetone	ND ¹	5000	150.00	10.00	Pass
Acetonitrile	ND ¹	410	6.00	2.30	Pass
Ethanol	<LOQ	N/A	250.00	2.00	N/A
Ethyl Acetate	ND ¹	5000	250.00	2.00	Pass
Diethyl ether	ND ¹	5000	250.00	2.00	Pass
Heptane	ND ¹	5000	250.00	2.00	Pass
Hexane	ND ¹	290	6.00	2.00	Pass
Isopropanol	ND ¹	N/A	50.00	10.00	Pass
Methanol	ND ¹	3000	50.00	10.00	Pass
N-Butane	ND ¹	5000	50.00	6.50	Pass
Pentane	ND ¹	5000	50.00	1.00	Pass
Propane	ND ¹	5000	200.00	10.00	Pass
Toluene	ND ¹	890	3.00	1.00	Pass
Total Xylenes	ND ¹	2170	3.00	1.00	Pass

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



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**Chemical Residue Screening - Pass**

Targeted analysis of chemical residues. [SOP-017] | Date Performed: 2020-01-26

	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 ¹	0.04	0.02	0.5	Pass	Fludioxonil	ND ¹	0.08	0.04	30.00	Pass
Acephate	ND ¹	0.08	0.04	0.4	Pass	Hexythiazox	ND ¹	0.04	0.02	1	Pass
Acequinocyl	ND ¹	0.04	0.02	2	Pass	Imazalil	ND ¹	0.04	0.02	0.2	Pass
Acetamiprid	ND ¹	0.02	0.01	0.2	Pass	Imidacloprid	ND ¹	0.10	0.04	0.4	Pass
Aldicarb	ND ¹	0.04	0.02	0.00	Pass	Kresoxim-methyl	ND ¹	0.10	0.04	0.4	Pass
Azoxystrobin	ND ¹	0.02	0.01	0.2	Pass	Malathion	ND ¹	0.04	0.02	0.2	Pass
Bifenazate	ND ¹	0.02	0.01	0.2	Pass	Metalaxyl	ND ¹	0.04	0.02	0.2	Pass
Bifenthrin	ND ¹	0.08	0.04	0.2	Pass	Methiocarb	ND ¹	0.04	0.02	0.2	Pass
Boscalid	ND ¹	0.04	0.02	0.4	Pass	Methomyl	ND ¹	0.08	0.04	0.10	Pass
Captan	ND ¹	0.04	0.02	5.00	Pass	Mevinphos	ND ¹	0.08	0.04	0.00	Pass
Carbaryl	ND ¹	0.04	0.02	0.2	Pass	Myclobutanil	ND ¹	0.10	0.04	0.2	Pass
Carbofuran	ND ¹	0.04	0.02	0.2	Pass	Naled	ND ¹	0.02	0.01	0.50	Pass
Chlorantraniliprole	ND ¹	0.08	0.04	0.2	Pass	Oxamyl	ND ¹	0.04	0.02	0.20	Pass
Chlordane	ND ¹	0.10	0.04	0.00	Pass	Paclobutrazol	ND ¹	0.04	0.02	0.4	Pass
Chlorfenapyr	ND ¹	0.10	0.04	0.00	Pass	Parathion methyl	ND ¹	0.04	0.02	0.00	Pass
Chlorpyrifos	ND ¹	0.08	0.04	0.2	Pass	PCNB	ND ¹	0.02	0.01	0.20	Pass
Clofentezine	ND ¹	0.02	0.01	0.2	Pass	Permethrin	ND ¹	0.10	0.04	0.2	Pass
Coumaphos	ND ¹	0.04	0.02	0.00	Pass	Phosmet	ND ¹	0.04	0.02	0.2	Pass
Cyfluthrin	ND ¹	0.10	0.04	1.00	Pass	Piperonyl butoxide	ND ¹	0.10	0.04	2	Pass
Cypermethrin	ND ¹	0.10	0.04	1.00	Pass	Prallethrin	ND ¹	0.10	0.04	0.2	Pass
Daminozide	ND ¹	0.08	0.04	1	Pass	Propiconazole	ND ¹	0.08	0.04	0.4	Pass
Diazinon	ND ¹	0.02	0.01	0.2	Pass	Propoxur	ND ¹	0.02	0.01	0.2	Pass
Dichlorvos	ND ¹	0.01	0.01	1	Pass	Pyrethrin	ND ¹	0.04	0.01	1	Pass
Dimethoate	ND ¹	0.04	0.02	0.2	Pass	Pyridaben	ND ¹	0.04	0.02	0.2	Pass
Dimethomorph	ND ¹	0.04	0.02	20.00	Pass	Spinetoram	ND ¹	0.08	0.04	3.00	Pass
Ethoprophos	ND ¹	0.02	0.01	0.2	Pass	Spinosad	ND ¹	0.04	0.02	3.00	Pass
Etofenprox	ND ¹	0.04	0.02	0.4	Pass	Spiromesifen	ND ¹	0.08	0.04	0.2	Pass
Etoxazole	ND ¹	0.04	0.02	0.2	Pass	Spirotetramat	ND ¹	0.04	0.02	0.2	Pass
Fenhexamid	ND ¹	0.08	0.04	10.00	Pass	Spiroxamine	ND ¹	0.04	0.02	0.4	Pass
Fenoxycarb	ND ¹	0.04	0.02	0.2	Pass	Tebuconazole	ND ¹	0.08	0.04	0.4	Pass
Fenpyroximate	ND ¹	0.08	0.04	0.4	Pass	Thiacloprid	ND ¹	0.04	0.02	0.2	Pass
Fipronil	ND ¹	0.08	0.04	0.00	Pass	Thiamethoxam	ND ¹	0.04	0.02	0.2	Pass
Fonicamid	ND ¹	0.04	0.02	0.20	Pass	Trifloxystrobin	ND ¹	0.01	0.01	0.2	Pass

*ND = Not Detected
NT = Not Tested**Heavy Metals Profiling - Pass**

Analysis of Heavy Metals. [SOP-012] | Date Performed: 2020-01-27

	ug/g	LOQ(ug/g)	LOD(ug/g)	Action Limit (ug/g)	Status
Cadmium	ND ¹	0.04	0.01	0.5	Pass
Lead	<LOQ	0.04	0.01	0.5	Pass
Arsenic	0.10	0.07	0.02	1.5	Pass
Mercury	ND ¹	0.05	0.02	3.0	Pass

*ND = Not Detected

Water Activity -

Analysis to determine water activity | Date Performed:

Aw

Action Limit (Aw)

Status

Foreign Material Analysis - Pass

Analysis to determine whether foreign material is present | Date Performed: 2020-01-24

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



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

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Mycotoxin Screening - Pass

Analysis of Mycotoxins. | Date Performed: 2020-01-26

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

¹ND = Not Detected

Terpene Profiling - Pass

Analysis of terpenes. [SOP-012] | Date Performed: 2020-01-25

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

Total Terpenes

0.0 Percent

¹ND = Not Detected

²L.C. = Label Claim



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