

Sample Name: Raw BL-BSB-001

Client: haenepsources

Sample Type: Oil

Strain: Unknown

Submitted: June 28, 2018

Tested: June 28, 2018

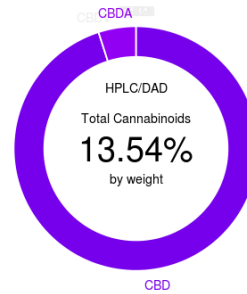
Expires: June 25, 2019

Submitted for: HPLC, Chemres, Micro, Residual Solvent,

Profiling by Liquid Chromatography - Pass

(SOP-014) | Date Performed: 2018-07-06

Cannabinoid	Percent	mg/g	LOQ (mg/g)	LOD (mg/g)	L.C. ¹	Status
d9-THC	ND ¹	ND ¹	5.00	1.67	-	Pass
d8-THC	ND ¹	ND ¹	5.00	1.67	-	Pass
THCA	ND ¹	ND ¹	5.00	1.67	-	Pass
THCV	ND ¹	ND ¹	5.00	1.67	-	Pass
CBG	ND ¹	ND ¹	5.00	1.67	-	Pass
CBGA	ND ¹	ND ¹	5.00	1.67	-	Pass
CBN	ND ¹	ND ¹	5.00	1.67	-	Pass
CBD	12.87	128.75	5.00	1.67	-	Pass
CBDV	ND ¹	ND ¹	5.00	1.67	-	Pass
CBDA	0.67	6.71	5.00	1.67	-	Pass
Total	13.54	135.46	NA	NA	-	Pass
Total THC	ND¹	ND¹	-	-	-	Pass
Total CBD	13.46	134.63	-	-	-	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: 2018-06-28

	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
Aspergillus niger	ND	< 1 cfu/g	1 cfu/g	Pass
Aspergillus flavus	ND	< 1 cfu/g	1 cfu/g	Pass
Aspergillus fumigatus	ND	< 1 cfu/g	1 cfu/g	Pass
Aspergillus terreus	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	100 cfu/g	Pass
Yeast & Mold	ND	< 1 cfu/g	10000 cfu/g	Pass

*TNTC = Too Numerous To Count

¹ND = Not Detected

Residual Solvent Analysis - Pass

Analysis of residual solvents. [SOP-011] | Date Performed: 2018-07-06

Solvent	ug/g	Action Limit	LOQ (ug/g)	LOD (ug/g)	Status
Benzene	ND ¹	0.00	1.00	0.33	Pass
Chloroform	ND ¹	0.00	1.00	0.33	Pass
1-2-Dichloroethane	ND ¹	0.00	1.00	0.33	Pass
Ethylene Oxide	ND ¹	0.00	1.00	0.33	Pass
Methylene Chloride	ND ¹	0.00	1.00	0.33	Pass
Trichloroethylene	ND ¹	0.00	1.00	0.33	Pass
Acetone	<LOQ	3100.00	150.00	10.00	Pass
Acetonitrile	ND ¹	6.00	6.00	2.30	Pass
Ethanol	<LOQ	5000.00	250.00	2.00	Pass
Ethyl Acetate	ND ¹	5000.00	250.00	2.00	Pass
Ethyl ether	ND ¹	5000.00	250.00	2.00	Pass
Heptane	<LOQ	5000.00	250.00	2.00	Pass
Hexane	ND ¹	70.00	6.00	2.00	Pass
Isopropanol	ND ¹	320.00	50.00	10.00	Pass
Methanol	ND ¹	400.00	50.00	10.00	Pass
N-Butane	ND ¹	5000.00	50.00	6.50	Pass
Pentane	<LOQ	5000.00	50.00	1.00	Pass
Propane	ND ¹	5000.00	200.00	10.00	Pass
Toluene	ND ¹	30.00	3.00	1.00	Pass
Total Xylenes	ND ¹	10.00	3.00	1.00	Pass

¹ND = 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
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CW uses its best efforts to deliver high quality results and to verify that the data contained therein are based on sound scientific judgement. 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. 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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Submitted for: HPLC, Chemres, Micro, Residual Solvent,

Chemical Residue Screening - Pass

Targeted analysis of chemical residues. [SOP-017] | Date Performed: 2018-07-07

	ug/g	LOQ (ug/g)	L	LO	L.C. ²	Status		ug/g	LOQ (ug/g)	L	LO	L.C. ²	Status
Abamectin	ND ¹	0.04	0.01	0.10		Pass	Fludioxonil	ND ¹	0.03	0.01	0.10		Pass
Acephate	ND ¹	0.31	0.10	0.10		Pass	Hexythiazox	ND ¹	0.04	0.01	0.10		Pass
Acequinocyl	ND ¹	0.03	0.01	0.10		Pass	Imazalil	ND ¹	0.01	0.01	0.00		Pass
Acetamiprid	ND ¹	0.03	0.01	0.10		Pass	Imidacloprid	ND ¹	0.04	0.01	5.00		Pass
Aldicarb	ND ¹	0.04	0.01	0.00		Pass	Kresoxim-methyl	ND ¹	0.02	0.01	0.10		Pass
Azoxystrobin	ND ¹	0.02	0.01	0.10		Pass	Malathion	ND ¹	0.07	0.02	0.50		Pass
Bifenazate	ND ¹	0.03	0.01	0.10		Pass	Metalaxyl	ND ¹	0.01	0.01	2.00		Pass
Bifenthrin	ND ¹	0.17	0.06	3.00		Pass	Methiocarb	ND ¹	0.03	0.01	0.00		Pass
Boscalid	ND ¹	0.03	0.01	0.10		Pass	Methomyl	ND ¹	0.03	0.01	1.00		Pass
Captan	ND ¹	0.07	0.02	0.70		Pass	Mevinphos	ND ¹	0.03	0.01	0.00		Pass
Carbaryl	ND ¹	0.03	0.01	0.50		Pass	Myclobutanil	ND ¹	0.03	0.01	0.10		Pass
Carbofuran	ND ¹	0.02	0.01	0.00		Pass	Naled	ND ¹	0.06	0.02	0.10		Pass
Chlorantraniliprole	ND ¹	0.06	0.02	10.00		Pass	Oxamyl	ND ¹	0.04	0.01	0.50		Pass
Chlordane	ND ¹	0.12	0.04	0.00		Pass	Paclobutrazol	ND ¹	0.03	0.01	0.00		Pass
Chlorfenapyr	ND ¹	0.06	0.02	0.00		Pass	Parathion methyl	ND ¹	0.14	0.05	0.00		Pass
Chlorpyrifos	ND ¹	0.13	0.04	0.00		Pass	PCNB	ND ¹	0.05	0.02	0.10		Pass
Clofentezine	ND ¹	0.04	0.01	0.10		Pass	Permethrin	ND ¹	0.05	0.02	0.50		Pass
Coumaphos	ND ¹	0.05	0.02	0.00		Pass	Phosmet	ND ¹	0.02	0.01	0.10		Pass
Cyfluthrin	ND ¹	0.13	0.04	2.00		Pass	Piperonyl butoxide	ND ¹	0.02	0.01	3.00		Pass
Cypermethrin	ND ¹	0.10	0.03	1.00		Pass	Prallethrin	ND ¹	0.07	0.02	0.10		Pass
Daminozide	ND ¹	0.05	0.02	0.00		Pass	Propiconazole	ND ¹	0.02	0.01	0.10		Pass
Diazinon	ND ¹	0.02	0.01	0.10		Pass	Propoxure	ND ¹	0.02	0.01	0.00		Pass
Dichlorvos	ND ¹	0.03	0.01	0.00		Pass	Pyrethrin	ND ¹	0.09	0.03	0.50		Pass
Dimethoate	ND ¹	0.05	0.02	0.00		Pass	Pyridaben	ND ¹	0.01	0.01	0.10		Pass
Dimethomorph	ND ¹	0.01	0.01	2.00		Pass	Spinetoram	ND ¹	0.03	0.01	0.10		Pass
Ethoprophos	ND ¹	0.05	0.02	0.00		Pass	Spinosad	ND ¹	0.02	0.01	0.10		Pass
Etofenprox	ND ¹	0.03	0.01	0.00		Pass	Spiromesifen	ND ¹	0.07	0.02	0.10		Pass
Etoxazole	ND ¹	0.02	0.01	0.10		Pass	Spirotetramat	ND ¹	0.03	0.01	0.10		Pass
Fenhexamid	ND ¹	0.03	0.01	0.10		Pass	Spiroxamine	ND ¹	0.03	0.01	0.00		Pass
Fenoxycarb	ND ¹	0.03	0.01	0.00		Pass	Tebuconazole	ND ¹	0.06	0.02	0.10		Pass
Fenpyroximate	ND ¹	0.03	0.01	0.10		Pass	Thiacloprid	ND ¹	0.02	0.01	0.00		Pass
Fipronil	ND ¹	0.04	0.01	0.00		Pass	Thiamethoxam	ND ¹	0.02	0.01	5.00		Pass
Fonicamid	ND ¹	0.04	0.01	0.10		Pass	Trifloxystrobin	0.09	0.04	0.01	0.10		Pass

¹ND = Not Detected
²NT = Not Tested

Terpene Profiling -

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

PPM	mg/g	L	LO	L.C. ²	Status	PPM	mg/g	L	LO	L.C. ²	Status
		OQ (mg/g)	D (mg/g)					OQ (mg/g)	D (mg/g)		
b-Myrcene	NT					Camphor	NT				
Nerol	NT					Borneol	NT				
Nerolidol	NT					Pulegone	NT				
Ocimene	NT					Cedrol	NT				
a-Bisbolol	NT					b-Caryophyllene	NT				
Farnasene	NT					Elemene	NT				
Valencene	NT					Phellandrene	NT				
d3-Carene	NT					Isopulegol	NT				
d-Limonene	NT					Linalool	NT				
g-Terpinene	NT					(+)-Fenchone	NT				
a-Pinene	NT					a-Caryophyllene	NT				
Sabinene	NT					Guaiol	NT				
b-Pinene	NT					Bergamotene	NT				
Camphene	NT					Terpineol	NT				
Eucalyptol	NT					Terpinolene	NT				
(-)-Fenchone	NT					a-Terpinene	NT				
Fenchol	NT										

Total Terpenes 0.0 PPM

¹ND = Not Detected
²L.C. = Label Claim

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