

Sample Name: PurCBD RGANIC HEMP OIL

Client: tlmresearchlabs

Sample Type: Infusedoil

Strain: Unknown

Moisture: 0.0% [LPG-001]

Submitted: December 07, 2018

Tested: December 07, 2018

Expires: December 07, 2019

Submitted for: Chemres, Micro, Residual Solvent,

Profiling by Liquid Chromatography -

(SOP-014) | Date Performed:

Cannabinoid	Percent	mg/g	LOQ (mg/g)	LOD (mg/g)	L.C. ¹	Status
d9-THC	NA	NA				
d8-THC	NA	NA				
THCA	NA	NA				
THCV	NA	NA				
CBG	NA	NA				
CBGA	NA	NA				
CBN	NA	NA				
CBD	NA	NA				
CBDV	NA	NA				
CBDA	NA	NA				
Total	NA	NA	NA	NA	-	



Total THC

Total CBD

¹L.C. = Label Claim in Percentage (%)

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: 2018-12-10

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

*TNTC = Too Numerous To Count

¹ND = Not Detected

Residual Solvent Analysis - Pass

Analysis of residual solvents. [SOP-011] | Date Performed: 2018-12-10

Solvent	ug/g	Action Limit	LOQ (ug/g)	LOD (ug/g)	Status
Benzene	< A.L.	0	1.00	0.33	Pass
Chloroform	< A.L.	0	1.00	0.33	Pass
1-2-Dichloroethane	< A.L.	0	1.00	0.33	Pass
Ethylene Oxide	< A.L.	0	1.00	0.33	Pass
Methylene Chloride	< A.L.	0	1.00	0.33	Pass
Trichloroethylene	< A.L.	0	1.00	0.33	Pass
Acetone	< A.L.	5000	150.00	10.00	Pass
Acetonitrile	< A.L.	410	6.00	2.30	Pass
Ethanol	< A.L.	5000	250.00	2.00	Pass
Ethyl Acetate	< A.L.	5000	250.00	2.00	Pass
Diethyl ether	< A.L.	5000	250.00	2.00	Pass
Heptane	< A.L.	5000	250.00	2.00	Pass
Hexane	< A.L.	290	6.00	2.00	Pass
Isopropanol	< A.L.	5000	50.00	10.00	Pass
Methanol	< A.L.	3000	50.00	10.00	Pass
N-Butane	< A.L.	5000	50.00	6.50	Pass
Pentane	< A.L.	5000	50.00	1.00	Pass
Propane	< A.L.	5000	200.00	10.00	Pass
Toluene	< A.L.	890	3.00	1.00	Pass
Total Xylenes	< A.L.	2170	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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Robert W Martin, PhD
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Submitted: December 07, 2018
 Tested: December 07, 2018
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 Submitted for: Chemres, Micro, Residual Solvent,

Chemical Residue Screening - Pass

Targeted analysis of chemical residues. [SOP-017] | Date Performed: 2018-12-12

ug/g	LOQ (ug/g)	LOD (ug/g)	Action Limit	Status	ug/g	LOQ (ug/g)	LOD (ug/g)	Action Limit	Status	
< A.L.	0.02	0.01	0.30	Pass	Fludioxonil	< A.L.	0.01	0.01	30.00	Pass
< A.L.	0.12	0.04	5.00	Pass	Hexythiazox	< A.L.	0.02	0.01	2.00	Pass
< A.L.	0.01	0.01	4.00	Pass	Imazalil	< A.L.	0.00	0.00	0.00	Pass
< A.L.	0.01	0.01	5.00	Pass	Imidacloprid	< A.L.	0.01	0.01	3.00	Pass
< A.L.	0.02	0.01	0.00	Pass	Kresoxim-methyl	< A.L.	0.01	0.01	1.00	Pass
< A.L.	0.01	0.01	40.00	Pass	Malathion	< A.L.	0.03	0.01	5.00	Pass
< A.L.	0.01	0.01	5.00	Pass	Metalaxyl	< A.L.	0.00	0.00	15.00	Pass
< A.L.	0.07	0.02	0.50	Pass	Methiocarb	< A.L.	0.01	0.01	0.00	Pass
< A.L.	0.01	0.01	10.00	Pass	Methomyl	< A.L.	0.01	0.01	0.10	Pass
< A.L.	0.03	0.01	5.00	Pass	Mevinphos	< A.L.	0.01	0.01	0.00	Pass
< A.L.	0.01	0.01	0.50	Pass	Myclobutanil	< A.L.	0.01	0.01	9.00	Pass
< A.L.	0.01	0.01	0.00	Pass	Naled	< A.L.	0.02	0.01	0.50	Pass
< A.L.	0.02	0.01	40.00	Pass	Oxamyl	< A.L.	0.02	0.01	0.20	Pass
< A.L.	0.05	0.02	0.00	Pass	Pacllobutrazol	< A.L.	0.01	0.01	0.00	Pass
< A.L.	0.02	0.01	0.00	Pass	Parathion methyl	< A.L.	0.06	0.02	0.00	Pass
< A.L.	0.05	0.02	0.00	Pass	PCNB	< A.L.	0.02	0.01	0.20	Pass
< A.L.	0.02	0.01	0.50	Pass	Permethrin	< A.L.	0.02	0.01	20.00	Pass
< A.L.	0.02	0.01	0.00	Pass	Phosmet	< A.L.	0.01	0.01	0.20	Pass
< A.L.	0.05	0.02	1.00	Pass	Piperonyl butoxide	< A.L.	0.01	0.01	8.00	Pass
< A.L.	0.04	0.01	1.00	Pass	Prallethrin	< A.L.	0.03	0.01	0.40	Pass
< A.L.	0.02	0.01	0.00	Pass	Propiconazole	< A.L.	0.01	0.01	20.00	Pass
< A.L.	0.01	0.01	0.20	Pass	Propoxur	< A.L.	0.01	0.01	0.00	Pass
< A.L.	0.01	0.01	0.00	Pass	Pyrethrin	< A.L.	0.04	0.01	1.00	Pass
< A.L.	0.02	0.01	0.00	Pass	Pyridaben	< A.L.	0.00	0.00	15.00	Pass
< A.L.	0.01	0.01	20.00	Pass	Spinetoram	< A.L.	0.01	0.01	3.00	Pass
< A.L.	0.02	0.01	0.00	Pass	Spinosad	< A.L.	0.01	0.01	3.00	Pass
< A.L.	0.01	0.01	0.00	Pass	Spiromesifen	< A.L.	0.03	0.01	12.00	Pass
< A.L.	0.01	0.01	1.50	Pass	Spirotetramat	< A.L.	0.01	0.01	13.00	Pass
< A.L.	0.01	0.01	10.00	Pass	Spiroxamine	< A.L.	0.01	0.01	0.00	Pass
< A.L.	0.01	0.01	0.00	Pass	Tebuconazole	< A.L.	0.03	0.01	2.00	Pass
< A.L.	0.01	0.01	2.00	Pass	Thiacloprid	< A.L.	0.01	0.01	0.00	Pass
< A.L.	0.02	0.01	0.00	Pass	Thiamethoxam	< A.L.	0.01	0.01	4.50	Pass
< A.L.	0.02	0.01	0.20	Pass	Trifloxystrobin	< A.L.	0.01	0.01	30.00	Pass

*ND = Not Detected
 NT = Not Tested

Terpene Profiling -

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

PPM	mg/g	LOQ (mg/g)	LOD (mg/g)	L.C. ²	Status	PPM	mg/g	LOQ (mg/g)	LOD (mg/g)	L.C. ²	Status
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

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²L.C. = Label Claim

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Robert W Martin, PhD
 Robert W Martin, PhD

Sample Name: PurCBD RAW TERPENE RICH PCR OIL

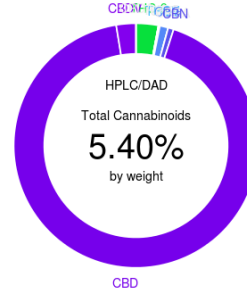
Client: tlmresearchlabs
 Sample Type: Infusedoil
 Strain: Unknown
 Moisture: 0.0% [LPG-001]

Submitted: December 07, 2018
 Tested: December 07, 2018
 Expires: December 07, 2019
 Submitted for: HPLC,

Profiling by Liquid Chromatography - Pass

(SOP-014) | Date Performed: 2018-12-17

Cannabinoid	Percent	mg/g	LOQ (mg/g)	LOD (mg/g)	L.C. ¹	Status
d9-THC	0.16	1.60	0.05	0.02	-	Pass
d8-THC	ND ¹	ND ¹	0.05	0.02	-	Pass
THCA	ND ¹	ND ¹	0.05	0.02	-	Pass
THCV	0.01	0.10	0.05	0.02	-	Pass
CBG	0.06	0.60	0.05	0.02	-	Pass
CBGA	ND ¹	ND ¹	0.05	0.02	-	Pass
CBN	0.04	0.40	0.05	0.02	-	Pass
CBD	4.99	49.90	0.05	0.02	-	Pass
CBDV	0.14	1.40	0.05	0.02	-	Pass
CBDA	ND ¹	ND ¹	0.05	0.02	-	Pass
Total	5.40	54.030	NA	NA	-	Pass
Total THC	0.16	1.61	-	-	-	Pass
Total CBD	4.99	49.90	-	-	-	Pass



¹100% Decarboxylated THC
¹L.C. = Label Claim in mg/g
 Total THC = ((THCA*0.877)+ d9-THC)
 Total CBD = ((CBDA*0.877)+ CBD)

Microbiological Screening -

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

Analysis	Limit of Detection	Action Limits	Status
Shiga-Toxin E. Coli	< 1 cfu/g	cfu/g	
Salmonella	< 1 cfu/g	cfu/g	
Aspergillus	< 1 cfu/g	cfu/g	
Pseudomonas	< 1 cfu/g	cfu/g	
APC	< 1 cfu/g	cfu/g	
E. Coli	< 1 cfu/g	cfu/g	
Coliform	< 1 cfu/g	cfu/g	
Yeast & Mold	< 1 cfu/g	cfu/g	

*TNTC = Too Numerous To Count

¹ND = 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	> A.L.				
Chloroform	> A.L.				
1,2-Dichloroethane	> A.L.				
Ethylene Oxide	> A.L.				
Methylene Chloride	> A.L.				
Trichloroethylene	> A.L.				
Acetone	> A.L.				
Acetonitrile	> A.L.				
Ethanol	> A.L.				
Ethyl Acetate	> A.L.				
Diethyl ether	> A.L.				
Heptane	> A.L.				
Hexane	> A.L.				
Isopropanol	> A.L.				
Methanol	> A.L.				
N-Butane	> A.L.				
Pentane	> A.L.				
Propane	> A.L.				
Toluene	> A.L.				
Total Xylenes	> A.L.				

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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 Strain: Unknown
 Moisture: 0.0% [LPG-001]

Submitted: December 07, 2018
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 Submitted for: HPLC,

Chemical Residue Screening -

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

	ug/g	LOQ (ug/g)	LOD (ug/g)	Action Limit	Status	ug/g	LOQ (ug/g)	LOD (ug/g)	Action Limit	Status
Abamectin	< A.L.					Fludioxonil				
Acephate	< A.L.					Hexythiazox				
Acequinocyl	< A.L.					Imazalil				
Acetamiprid	< A.L.					Imidacloprid				
Aldicarb	< A.L.					Kresoxim-methyl				
Azoxystrobin	< A.L.					Malathion				
Bifenazate	< A.L.					Metalaxyl				
Bifenthrin	< A.L.					Methiocarb				
Boscalid	< A.L.					Methomyl				
Captan	< A.L.					Mevinphos				
Carbaryl	< A.L.					Myclobutanil				
Carbofuran	< A.L.					Naled				
Chlorantraniliprole	< A.L.					Oxamyl				
Chlordane	< A.L.					Pacllobutrazol				
Chlorfenapyr	< A.L.					Parathion methyl				
Chlorpyrifos	< A.L.					PCNB				
Clofentezine	< A.L.					Permethrin				
Coumaphos	< A.L.					Phosmet				
Cyfluthrin	< A.L.					Piperonyl butoxide				
Cypermethrin	< A.L.					Prallethrin				
Daminozide	< A.L.					Propiconazole				
Diazinon	< A.L.					Propoxur				
Dichlorvos	< A.L.					Pyrethrin				
Dimethoate	< A.L.					Pyridaben				
Dimethomorph	< A.L.					Spinetoram				
Ethoprophos	< A.L.					Spinosad				
Etofenprox	< A.L.					Spiromesifen				
Etoazole	< A.L.					Spirotetramat				
Fenhexamid	< A.L.					Spiroxamine				
Fenoxycarb	< A.L.					Tebuconazole				
Fenpyroximate	< A.L.					Thiacloprid				
Fipronil	< A.L.					Thiamethoxam				
Flonicamid	< A.L.					Trifloxystrobin				

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Terpene Profiling -

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

	PPM	mg/g	LOQ (mg/g)	LOD (mg/g)	L.C. ²	Status		PPM	mg/g	LOQ (mg/g)	LOD (mg/g)	L.C. ²	Status
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						Guaial	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

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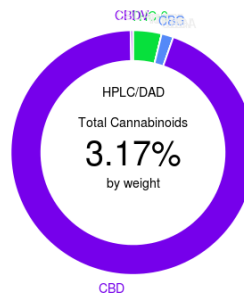
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d8-THC	ND ¹	ND ¹	0.05	0.02	-	Pass
THCA	ND ¹	ND ¹	0.05	0.02	-	Pass
THCV	ND ¹	ND ¹	0.05	0.02	-	Pass
CBG	0.05	0.50	0.05	0.02	-	Pass
CBGA	ND ¹	ND ¹	0.05	0.02	-	Pass
CBN	ND ¹	ND ¹	0.05	0.02	-	Pass
CBD	2.99	29.90	0.05	0.02	-	Pass
CBDV	0.01	0.10	0.05	0.02	-	Pass
CBDA	ND ¹	ND ¹	0.05	0.02	-	Pass
Total	3.18	31.750	NA	NA	-	Pass
Total THC	0.12	1.19	-	-	-	Pass
Total CBD	2.99	29.91	-	-	-	Pass



~100% Decarboxylated THC
¹L.C. = Label Claim in mg/g
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Ethylene Oxide	> A.L.				
Methylene Chloride	> A.L.				
Trichloroethylene	> A.L.				
Acetone	> A.L.				
Acetonitrile	> A.L.				
Ethanol	> A.L.				
Ethyl Acetate	> A.L.				
Diethyl ether	> A.L.				
Heptane	> A.L.				
Hexane	> A.L.				
Isopropanol	> A.L.				
Methanol	> A.L.				
N-Butane	> A.L.				
Pentane	> A.L.				
Propane	> A.L.				
Toluene	> A.L.				
Total Xylenes	> A.L.				

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Abamectin	< A.L.					Fludioxonil					
Acephate	< A.L.					Hexythiazox					
Acequinocyl	< A.L.					Imazalil					
Acetamiprid	< A.L.					Imidacloprid					
Aldicarb	< A.L.					Kresoxim-methyl					
Azoxystrobin	< A.L.					Malathion					
Bifenazate	< A.L.					Metalaxyl					
Bifenthrin	< A.L.					Methiocarb					
Boscalid	< A.L.					Methomyl					
Captan	< A.L.					Mevinphos					
Carbaryl	< A.L.					Myclobutanil					
Carbofuran	< A.L.					Naled					
Chlorantraniliprole	< A.L.					Oxamyl					
Chlordane	< A.L.					Pacllobutrazol					
Chlorfenapyr	< A.L.					Parathion methyl					
Chlorpyrifos	< A.L.					PCNB					
Clofentezine	< A.L.					Permethrin					
Coumaphos	< A.L.					Phosmet					
Cyfluthrin	< A.L.					Piperonyl butoxide					
Cypermethrin	< A.L.					Prallethrin					
Daminozide	< A.L.					Propiconazole					
Diazinon	< A.L.					Propoxur					
Dichlorvos	< A.L.					Pyrethrin					
Dimethoate	< A.L.					Pyridaben					
Dimethomorph	< A.L.					Spinetoram					
Ethoprophos	< A.L.					Spinosad					
Etofenprox	< A.L.					Spiromesifen					
Etoxazole	< A.L.					Spirotetramat					
Fenhexamid	< A.L.					Spiroxamine					
Fenoxycarb	< A.L.					Tebuconazole					
Fenpyroximate	< A.L.					Thiacloprid					
Fipronil	< A.L.					Thiamethoxam					
Flonicamid	< A.L.					Trifloxystrobin					

*ND = Not Detected
 NT = Not Tested

Terpene Profiling -

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

	PPM	mg/g	LOQ (mg/g)	LOD (mg/g)	L.C. ²	Status		PPM	mg/g	LOQ (mg/g)	LOD (mg/g)	L.C. ²	Status
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						Guaial	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

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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