

prepared for: HEMPLUCID

4844 N 300 W PROVO, UT 84604

Organic CBD Oil Concentrate

Batch ID:	O-CO2-YP5-05620-B1	Test ID:	T000069113
Reported:	29-Mar-2020	Method:	Concentrate - Test Methods: TM05, TM06
Type:	Concentrate		
Test:	Microbial Contaminants		

MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
E. coli	None Detected
Salmonella	None Detected

^{*} CFU/g = Colony Forming Unit per Gram

Examples: 10^2 = 100 CFU

10³ = 1,000 CFU 10⁴ = 10,000 CFU 10⁵ = 100,000 CFU

NOTES:

Free from visual mold, mildew, and foreign matter

TYM: None Detected

Total Aerobic: None Detected Coliforms: None Detected

FINAL APPROVAL

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Nick Tumminaro 29-Mar-2020 2:45 PM Mathen

Mike Branvold 29-Mar-2020 8:36 PM

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^{**} Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.



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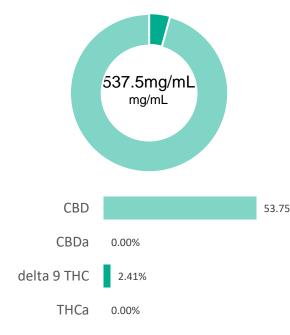
4844 N 300 W

4844 N 300 W PROVO, UT 84604

Organic CBD Oil Concentrate

Batch ID:	O-CO2-YP5-05620-B1	Test ID:	5238630.0021
Reported:	30-Mar-2020	Method:	TM14
Туре:	Solution		
Test:	Potency		

CANNABINOID PROFILE



Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-	A) 2.70	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	1.35	24.10	24.1
Cannabidiolic acid (CBDA)	1.35	ND	ND
Cannabidiol (CBD)	0.75	537.50	537.5
Delta 8-Tetrahydrocannabinol (Delta 8THC)	1.48	ND	ND
Cannabinolic Acid (CBNA)	3.71	ND	ND
Cannabinol (CBN)	1.64	ND	ND
Cannabigerolic acid (CBGA)	2.36	ND	ND
Cannabigerol (CBG)	1.33	6.10	6.1
Tetrahydrocannabivarinic Acid (THCVA)	2.32	ND	ND
Tetrahydrocannabivarin (THCV)	1.21	ND	ND
Cannabidivarinic Acid (CBDVA)	1.25	ND	ND
Cannabidivarin (CBDV)	0.69	ND	ND
Cannabichromenic Acid (CBCA)	2.03	ND	ND
Cannabichromene (CBC)	2.44	16.00	16.0
Total Cannabinoids		583.70	583.68
Total Potential THC**	·	24.10	24.08
Total Potential CBD**		537.50	537.50

NOTES:

Density = 1g/mL

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

Total THC = THC + (THCa *(0.877)) and Total CBD = CBD + (CBDa */0.877)\ ND = None Detected (Defined by Dynamic Range of the method)

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Tyler Wiese 30-Mar-2020 4:58 PM

Den Muton

Ben Minton 30-Mar-2020 5:25 PM

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^{*} Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

^{**} Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.



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4844 N 300 W PROVO, UT 84604

Organic CBD Oil Concentrate

Batch ID:	O-CO2-YP5-05620-B1	Test ID:	T000069112
Reported:	31-Mar-2020	Method:	TM04
Туре:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	75 - 1508	*ND
Butanes (Isobutane, n-Butane)	145 - 2898	*ND
Methanol	51 - 1015	*ND
Pentane	78 - 1565	*ND
Ethanol	77 - 1546	*ND
Acetone	83 - 1665	*ND
Isopropyl Alcohol	87 - 1742	*ND
Hexane	5 - 102	*ND
Ethyl Acetate	83 - 1667	*ND
Benzene	0.2 - 3.3	*ND
Heptanes	80 - 1600	*ND
Toluene	15 - 301	*ND
Xylenes (m,p,o-Xylenes)	108 - 2168	*ND

^{*} ND = None Detected (Defined by Dynamic Range of the method)

NOTES: N/A

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Ryan Weems 31-Mar-2020 4:27 PM An 37/

Greg Zimpfer 31-Mar-2020 6:43 PM

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prepared for: HEMPLUCID 4844 N 300 W PROVO, UT 84604

Organic CBD Oil Concentrate

 Batch ID:
 O-CO2-YP5-05620-B1
 Test ID:
 T000069115

 Reported:
 3-Apr-2020
 Method:
 TM19

 Type:
 Concentrate

 Test:
 Metals

HEAVY METALS

Analyte	Dynmic Range (ppm)	Result (ppm)
Arsenic	0.071 - 7.10	ND
Cadmium	0.069 - 6.90	ND
Mercury	0.122 - 12.20	ND
Lead	0.190 - 19.00	ND

^{*} ND = None Detected (Defined by Dynamic Range of the method)

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Chris Jungling 3-Apr-2020 9:09 AM

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Greg Zimpfer 3-Apr-2020 10:12 AM

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Organic CBD Oil Concentrate

Batch ID: O-CO2-YP5-05620-B1 **Test ID:** 2103819.0016

Reported: 1-Apr-2020 Method: TM17

Type: Concentrate

Test: Pesticides

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	58 - 2663	ND*
Acetamiprid	58 - 2663	ND*
Abamectin	>345	ND*
Azoxystrobin	58 - 2663	ND*
Bifenazate	58 - 2663	ND*
Boscalid	58 - 2663	ND*
Carbaryl	58 - 2663	ND*
Carbofuran	58 - 2663	ND*
Chlorantraniliprole	58 - 2663	ND*
Chlorpyrifos	58 - 2663	ND*
Clofentezine	345 - 2663	ND*
Diazinon	345 - 2663	ND*
Dichlorvos	>345	ND*
Dimethoate	58 - 2663	ND*
E-Fenpyroximate	58 - 2663	ND*
Etofenprox	58 - 2663	ND*
Etoxazole	345 - 2663	ND*
Fenoxycarb	>58	ND*
Fipronil	58 - 2663	ND*
Flonicamid	58 - 2663	ND*
Fludioxonil	>345	ND*
Hexythiazox	58 - 2663	ND*
Imazalil	345 - 2663	ND*
Imidacloprid	58 - 2663	ND*
Kresoxim-methyl	58 - 2663	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	345 - 2663	ND*
Metalaxyl	58 - 2663	ND*
Methiocarb	58 - 2663	ND*
Methomyl	58 - 2663	ND*
MGK 264 1	345 - 2663	ND*
MGK 264 2	345 - 2663	ND*
Myclobutanil	58 - 2663	ND*
Naled	58 - 2663	ND*
Oxamyl	58 - 2663	ND*
Paclobutrazol	58 - 2663	ND*
Permethrin	345 - 2663	ND*
Phosmet	58 - 2663	ND*
Prophos	345 - 2663	ND*
Propoxur	58 - 2663	ND*
Pyridaben	58 - 2663	ND*
Spinosad A	58 - 2663	ND*
Spinosad D	345 - 2663	ND*
Spiromesifen	>345	ND*
Spirotetramat	>345	ND*
Spiroxamine 1	58 - 2663	ND*
Spiroxamine 2	58 - 2663	ND*
Tebuconazole	345 - 2663	ND*
Thiacloprid	58 - 2663	ND*
Thiamethoxam	58 - 2663	ND*
Trifloxystrobin	58 - 2663	ND*

N/A

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Tyler Wiese 1-Apr-2020 3:38 PM

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Greg Zimpfer 1-Apr-2020 4:36 PM

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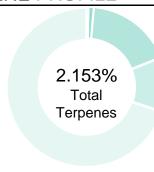
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CBD Oil Concentrate

Batch ID:	O-CO2-YP5-05620-B1	Test ID:	1074674.0012
Reported:	27-Apr-2020	Method:	TM10
Type:	Concentrate		
Test:	Terpenes		

TERPENE PROFILE



PRFD	OMIN	ANT -	TERPE	NES
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alpha-Pinene	0.000%	
(-)-beta-Pinene	0.000%	
beta-Myrcene	0.003%	
delta-3-Carene	0.000%	
alpha-Terpinene	0.003%	
d-Limonene	0.002%	
Linalool	0.021%	
eta-Caryophyllene	0.369%	
alpha-Humulene	0.231%	
(-)-alpha-Bisabolol		1.466%

Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	1.466	14.66
Camphene	N/A	N/A
delta-3-Carene	0.000	0
beta-Caryophyllene	0.369	3.69
(-)-Caryophyllene Oxide	0.000	0
p-Cymene	0.000	0
Eucalyptol	0.010	0.1
Geraniol	0.000	0
alpha-Humulene	0.231	2.31
(-)-Isopulegol	0.000	0
d-Limonene	0.002	0.02
Linalool	0.021	0.21
beta-Myrcene	0.003	0.03
cis-Nerolidol	0.000	0
trans-Nerolidol	0.043	0.43
Ocimene	0.000	0
beta-Ocimene	0.000	0
alpha-Pinene	0.000	0
(-)-beta-Pinene	0.000	0
alpha-Terpinene	0.003	0.03
gamma-Terpinene	0.004	0.04
Terpinolene	0.001	0.01
	2.153%	21.53

NOTES:

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Michelle Gagnon 27-Apr-2020 1:33 PM

An 301

Greg Zimpfer 27-Apr-2020 8:34 PM

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