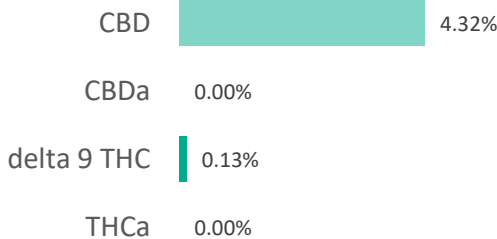
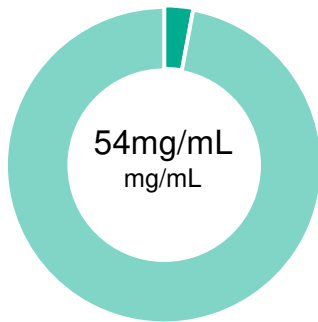


**HL-WS1500 LOT: 2000035**

<b>Batch ID:</b>	PJ-6079	<b>Test ID:</b>	2441923.002
<b>Reported:</b>	29-Apr-2020	<b>Method:</b>	TM14
<b>Type:</b>	Solution		
<b>Test:</b>	Potency		


**CANNABINOID PROFILE**


Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.69	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.35	1.60	1.3
Cannabidiolic acid (CBDA)	0.59	ND	ND
Cannabidiol (CBD)	0.33	54.00	43.2
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.38	ND	ND
Cannabinolic Acid (CBNA)	0.95	ND	ND
Cannabinol (CBN)	0.42	ND	ND
Cannabigerolic acid (CBGA)	0.61	ND	ND
Cannabigerol (CBG)	0.34	0.60	0.4
Tetrahydrocannabivarinic Acid (THCVA)	0.60	ND	ND
Tetrahydrocannabivarin (THCV)	0.31	ND	ND
Cannabidivarinic Acid (CBDVA)	0.55	ND	ND
Cannabidivarin (CBDV)	0.30	ND	ND
Cannabichromenic Acid (CBCA)	0.52	ND	ND
Cannabichromene (CBC)	0.63	1.70	1.3
<b>Total Cannabinoids</b>		<b>57.90</b>	<b>46.30</b>
Total Potential THC**		1.60	1.31
Total Potential CBD**		54.00	43.23

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)  
 \* 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.  
 Total THC = THC + (THCa \* (0.877)) and Total CBD = CBD + (CBDa \* (0.877))  
 ND = None Detected (Defined by Dynamic Range of the method)

**NOTES:**  
 Density = 1.25g/mL  
 N/A

**FINAL APPROVAL**

  
 Michelle Gagnon  
 29-Apr-2020  
 5:32 PM

  
 Greg Zimpfer  
 29-Apr-2020  
 6:01 PM

PREPARED BY / DATE

APPROVED BY / DATE

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HL-WS1500

<b>Batch ID:</b>	2000035	<b>Test ID:</b>	T000072096
<b>Reported:</b>	23-Apr-2020	<b>Method:</b>	Concentrate - Test Methods: TM05, TM06
<b>Type:</b>	Concentrate		
<b>Test:</b>	Microbial Contaminants		

## MICROBIAL CONTAMINANTS

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

\* CFU/g = Colony Forming Unit per Gram

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

Examples:  $10^2 = 100$  CFU  
 $10^3 = 1,000$  CFU  
 $10^4 = 10,000$  CFU  
 $10^5 = 100,000$  CFU

### NOTES:


Free from visual mold, mildew, and foreign matter


TYM: None Detected

Total Aerobic: None Detected

Coliforms: None Detected

## FINAL APPROVAL

  
Nick Tumminaro  
23-Apr-2020  
1:34 PM

  
Ben Minton  
23-Apr-2020  
4:48 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.03

HL-WS1500


<b>Batch ID:</b>	2000035	<b>Test ID:</b>	T000072097
<b>Reported:</b>	22-Apr-2020	<b>Method:</b>	TM19
<b>Type:</b>	Other		
<b>Test:</b>	Metals		

## HEAVY METALS

Analyte	Dynmic Range (ppm)	Result (ppm)
Arsenic	0.073 - 7.27	ND
Cadmium	0.065 - 6.54	ND
Mercury	0.072 - 7.18	ND
Lead	0.062 - 6.25	ND


\* ND = None Detected (Defined by Dynamic Range of the method)

## FINAL APPROVAL



Alex Benson  
22-Apr-2020  
11:05 AM

PREPARED BY / DATE



Greg Zimpfer  
22-Apr-2020  
2:57 PM

APPROVED BY / DATE

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## Organic CBD Oil Concentrate

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

## MICROBIAL CONTAMINANTS

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

\* CFU/g = Colony Forming Unit per Gram

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

Examples:  $10^2 = 100$  CFU  
 $10^3 = 1,000$  CFU  
 $10^4 = 10,000$  CFU  
 $10^5 = 100,000$  CFU

## NOTES:


Free from visual mold, mildew, and foreign matter

TYM: None Detected

Total Aerobic: None Detected

Coliforms: None Detected

## FINAL APPROVAL

  
Nick Tumminaro  
29-Mar-2020  
2:45 PM  
Mike Branvold  
29-Mar-2020  
8:36 PM

PREPARED BY / DATE

APPROVED BY / DATE

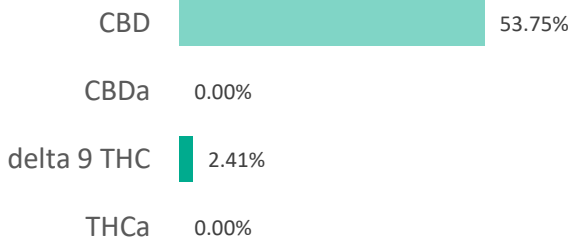
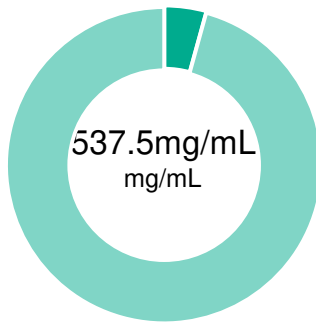
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Certificate #4329.03

**Organic CBD Oil Concentrate**

<b>Batch ID:</b>	O-CO2-YP5-05620-B1	<b>Test ID:</b>	5238630.0021
<b>Reported:</b>	30-Mar-2020	<b>Method:</b>	TM14
<b>Type:</b>	Solution		
<b>Test:</b>	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
<b>Total Cannabinoids</b>		<b>583.70</b>	<b>583.68</b>
Total Potential THC**		24.10	24.08
Total Potential CBD**		537.50	537.50

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)  
 \* 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.  
 Total THC = THC + (THCa \* (0.877)) and Total CBD = CBD + (CBDa \* (0.877))  
 ND = None Detected (Defined by Dynamic Range of the method)

**NOTES:**  
 Density = 1g/mL  
 N/A

**FINAL APPROVAL**

  
 Tyler Wiese  
 30-Mar-2020  
 4:58 PM

  
 Ben Minton  
 30-Mar-2020  
 5:25 PM

PREPARED BY / DATE

APPROVED BY / DATE

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**Organic CBD Oil Concentrate**

<b>Batch ID:</b>	O-CO2-YP5-05620-B1	<b>Test ID:</b>	T000069112
<b>Reported:</b>	31-Mar-2020	<b>Method:</b>	TM04
<b>Type:</b>	Concentrate		
<b>Test:</b>	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**FINAL APPROVAL**

Ryan Weems  
31-Mar-2020  
4:27 PM

PREPARED BY / DATE



Greg Zimpfer  
31-Mar-2020  
6:43 PM

APPROVED BY / DATE

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Certificate #4329.02


**Organic CBD Oil Concentrate**

<b>Batch ID:</b>	O-CO2-YP5-05620-B1	<b>Test ID:</b>	T000069115
<b>Reported:</b>	3-Apr-2020	<b>Method:</b>	TM19
<b>Type:</b>	Concentrate		
<b>Test:</b>	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)

**FINAL APPROVAL**

Chris Jungling  
3-Apr-2020  
9:09 AM

PREPARED BY / DATE



Greg Zimpfer  
3-Apr-2020  
10:12 AM

APPROVED BY / DATE

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**Organic CBD Oil Concentrate**

<b>Batch ID:</b>	O-CO2-YP5-05620-B1	<b>Test ID:</b>	2103819.0016
<b>Reported:</b>	1-Apr-2020	<b>Method:</b>	TM17
<b>Type:</b>	Concentrate		
<b>Test:</b>	Pesticides		


**PESTICIDE RESIDUE**


Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	58 - 2663	ND*	Malathion	345 - 2663	ND*
Acetamiprid	58 - 2663	ND*	Metalaxyl	58 - 2663	ND*
Abamectin	>345	ND*	Methiocarb	58 - 2663	ND*
Azoxystrobin	58 - 2663	ND*	Methomyl	58 - 2663	ND*
Bifenazate	58 - 2663	ND*	MGK 264 1	345 - 2663	ND*
Boscalid	58 - 2663	ND*	MGK 264 2	345 - 2663	ND*
Carbaryl	58 - 2663	ND*	Myclobutanil	58 - 2663	ND*
Carbofuran	58 - 2663	ND*	Naled	58 - 2663	ND*
Chlorantraniliprole	58 - 2663	ND*	Oxamyl	58 - 2663	ND*
Chlorpyrifos	58 - 2663	ND*	Paclobutrazol	58 - 2663	ND*
Clofentezine	345 - 2663	ND*	Permethrin	345 - 2663	ND*
Diazinon	345 - 2663	ND*	Phosmet	58 - 2663	ND*
Dichlorvos	>345	ND*	Prophos	345 - 2663	ND*
Dimethoate	58 - 2663	ND*	Propoxur	58 - 2663	ND*
E-Fenpyroximate	58 - 2663	ND*	Pyridaben	58 - 2663	ND*
Etofenprox	58 - 2663	ND*	Spinosad A	58 - 2663	ND*
Etoxazole	345 - 2663	ND*	Spinosad D	345 - 2663	ND*
Fenoxycarb	>58	ND*	Spiromesifen	>345	ND*
Fipronil	58 - 2663	ND*	Spirotetramat	>345	ND*
Flonicamid	58 - 2663	ND*	Spiroxamine 1	58 - 2663	ND*
Fludioxonil	>345	ND*	Spiroxamine 2	58 - 2663	ND*
Hexythiazox	58 - 2663	ND*	Tebuconazole	345 - 2663	ND*
Imazalil	345 - 2663	ND*	Thiacloprid	58 - 2663	ND*
Imidacloprid	58 - 2663	ND*	Thiamethoxam	58 - 2663	ND*
Kresoxim-methyl	58 - 2663	ND*	Trifloxystrobin	58 - 2663	ND*

\* ND = None Detected (Defined by Dynamic Range of the method)

N/A

**FINAL APPROVAL**

  
 Tyler Wiese  
 1-Apr-2020  
 3:38 PM  
 PREPARED BY / DATE

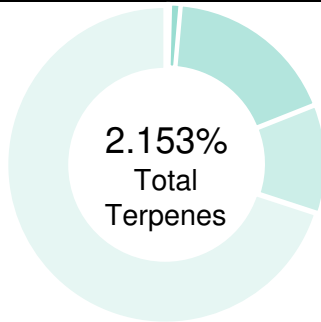
  
 Greg Zimpfer  
 1-Apr-2020  
 4:36 PM  
 APPROVED BY / DATE

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**CBD Oil Concentrate**

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

**TERPENE PROFILE**


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
	<b>2.153%</b>	<b>21.53</b>



**PREDOMINANT TERPENES**

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%
beta-Caryophyllene	0.369%
alpha-Humulene	0.231%
(-)-alpha-Bisabolol	1.466%

**NOTES:**

0

**FINAL APPROVAL**

 Michelle Gagnon 27-Apr-2020 1:33 PM	 Greg Zimpfer 27-Apr-2020 8:34 PM
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PREPARED BY / DATE

APPROVED BY / DATE

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