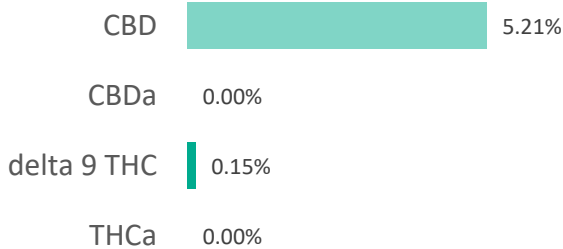
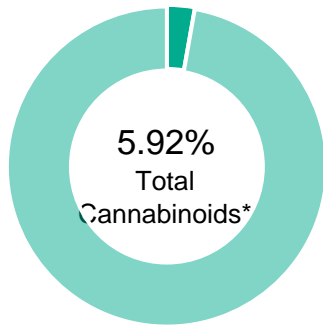


ESSENTIAL PAIN RELIEF TINCTURE

Batch ID:	200505	Test ID:	T000096431
Reported:	17-Sep-2020	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.03	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.01	0.15	1.5
Cannabidiolic acid (CBDA)	0.02	ND	ND
Cannabidiol (CBD)	0.04	5.21	52.1
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.02	ND	ND
Cannabinolic Acid (CBNA)	0.04	ND	ND
Cannabinol (CBN)	0.02	0.02	0.2
Cannabigerolic acid (CBGA)	0.02	ND	ND
Cannabigerol (CBG)	0.01	0.48	4.8
Tetrahydrocannabivarinic Acid (THCVA)	0.02	ND	ND
Tetrahydrocannabivarin (THCV)	0.01	ND	ND
Cannabidivarinic Acid (CBDVA)	0.02	ND	ND
Cannabidivarin (CBDV)	0.01	0.03	0.3
Cannabichromenic Acid (CBCA)	0.02	ND	ND
Cannabichromene (CBC)	0.03	0.03	0.3
Total Cannabinoids		5.92	59.2
Total Potential THC**		0.15	1.5
Total Potential CBD**		5.21	52.1

NOTES:

N/A

% = % (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.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

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

FINAL APPROVAL


 Daniel Weidensaul
 17-Sep-2020
 2:28 PM



 Greg Zimpfer
 17-Sep-2020
 3:27 PM

PREPARED BY / DATE

APPROVED BY / DATE

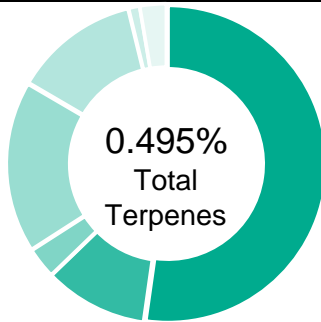
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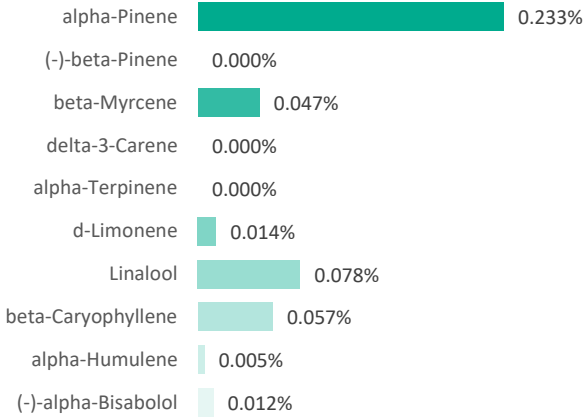
Certificate #4329.02

ESSENTIAL PAIN RELIEF TINCTURE



Batch ID:	200505	Test ID:	4050321.008
Reported:	21-Sep-2020	Method:	TM10
Type:	Concentrate		
Test:	Terpenes		

TERPENE PROFILE


Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.012	0.12
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.057	0.57
(-)-Caryophyllene Oxide	0.006	0.06
p-Cymene	0.013	0.13
Eucalyptol	0.029	0.29
Geraniol	0.000	0
alpha-Humulene	0.005	0.05
(-)-Isopulegol	0.000	0
d-Limonene	0.014	0.14
Linalool	0.078	0.78
beta-Myrcene	0.047	0.47
cis-Nerolidol	0.000	0
trans-Nerolidol	0.000	0
Ocimene	0.000	0
beta-Ocimene	0.000	0
alpha-Pinene	0.233	2.33
(-)-beta-Pinene	0.000	0
alpha-Terpinene	0.000	0
gamma-Terpinene	0.001	0.01
Terpinolene	0.000	0
	0.495%	4.95

PREDOMINANT TERPENES

 NOTES:
 0

FINAL APPROVAL

 Daniel Weidensaul 21-Sep-2020 12:39 PM	 Greg Zimpfer 21-Sep-2020 8:53 PM
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APPROVED BY / DATE

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Certificate #4329.02

ESSENTIAL PAIN RELIEF TINCTURE

Batch ID:	200505	Test ID:	T000096432
Reported:	17-Sep-2020	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		


RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	81 - 1621	*ND
Butanes (Isobutane, n-Butane)	170 - 3407	*ND
Methanol	68 - 1354	*ND
Pentane	99 - 1978	*ND
Ethanol	99 - 1988	453
Acetone	112 - 2244	*ND
Isopropyl Alcohol	116 - 2319	*ND
Hexane	6 - 124	*ND
Ethyl Acetate	108 - 2155	*ND
Benzene	0.2 - 4.5	*ND
Heptanes	107 - 2132	*ND
Toluene	21 - 411	*ND
Xylenes (m,p,o-Xylenes)	150 - 2991	*ND

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

NOTES:
N/A

FINAL APPROVAL


 Sam Smith
 17-Sep-2020
 3:22 PM

PREPARED BY / DATE


 Greg Zimpfer
 17-Sep-2020
 3:58 PM

APPROVED BY / DATE

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Certificate #4329.02

CBD DISTILLATE

Batch ID:	BH-DST-CBD-1-200815	Test ID:	T000090441
Reported:	17-Aug-2020	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		


RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	98 - 1959	*ND
Butanes (Isobutane, n-Butane)	148 - 2969	*ND
Methanol	63 - 1257	*ND
Pentane	88 - 1758	*ND
Ethanol	86 - 1717	*ND
Acetone	103 - 2050	*ND
Isopropyl Alcohol	107 - 2144	*ND
Hexane	6 - 123	*ND
Ethyl Acetate	103 - 2054	*ND
Benzene	0.2 - 4.1	*ND
Heptanes	95 - 1908	*ND
Toluene	19 - 373	*ND
Xylenes (m,p,o-Xylenes)	135 - 2704	*ND

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


NOTES:
N/A

FINAL APPROVAL



Ryan Weems
17-Aug-2020
6:12 PM

PREPARED BY / DATE



Scott Hanson
17-Aug-2020
7:42 PM

APPROVED BY / DATE

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Certificate #4329.02

CBD DISTILLATE

Batch ID:	BH-DST-CBD-1-200815	Test ID:	t000090442
Reported:	17-Aug-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
<i>E. coli</i>	None Detected
<i>Salmonella</i>	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

Sarah Henning
17-Aug-2020
3:10 PMScott Hanson
17-Aug-2020
8:11 PM

PREPARED BY / DATE

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Certificate #4329.03

CBD DISTILLATE


Batch ID:	BH-DST-CBD-1-200815	Test ID:	T000090445
Reported:	18-Aug-2020	Method:	TM19
Type:	Concentrate		
Test:	Metals		

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.068 - 6.84	ND
Cadmium	0.069 - 6.91	ND
Mercury	0.093 - 9.26	ND
Lead	0.069 - 6.92	ND


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

FINAL APPROVAL



Ryan Weems
18-Aug-2020
10:32 AM

PREPARED BY / DATE



Greg Zimpfer
18-Aug-2020
11:50 AM

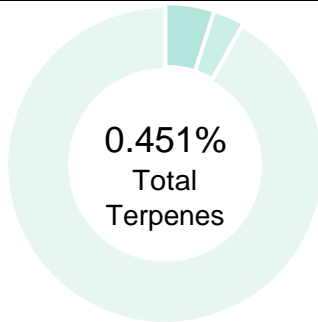
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CBD DISTILLATE

Batch ID:	BH-DST-CBD-1-200815	Test ID:	6179197.001
Reported:	18-Aug-2020	Method:	TM10
Type:	Concentrate		
Test:	Terpenes		

TERPENE PROFILE



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.352	3.52
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.019	0.19
(-)-Caryophyllene Oxide	0.046	0.46
p-Cymene	0.000	0
Eucalyptol	0.000	0
Geraniol	0.000	0
alpha-Humulene	0.012	0.12
(-)-Isopulegol	0.000	0
d-Limonene	0.000	0
Linalool	0.000	0
beta-Myrcene	0.000	0
cis-Nerolidol	0.000	0
trans-Nerolidol	0.022	0.22
Ocimene	0.000	0
beta-Ocimene	0.000	0
alpha-Pinene	0.000	0
(-)-beta-Pinene	0.000	0
alpha-Terpinene	0.000	0
gamma-Terpinene	0.000	0
Terpinolene	0.000	0
	0.451%	4.51

PREDOMINANT TERPENES

alpha-Pinene	0.000%
(-)-beta-Pinene	0.000%
beta-Myrcene	0.000%
delta-3-Carene	0.000%
alpha-Terpinene	0.000%
d-Limonene	0.000%
Linalool	0.000%
beta-Caryophyllene	0.019%
alpha-Humulene	0.012%
(-)-alpha-Bisabolol	0.352%

NOTES:
0

FINAL APPROVAL

 Michelle Gagnon 18-Aug-2020 1:42 PM	 Ben Minton 18-Aug-2020 2:37 PM
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APPROVED BY / DATE

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Certificate #4329.02

CBD DISTILLATE

Batch ID:	BH-DST-CBD-1-200815	Test ID:	6488737.0018
Reported:	18-Aug-2020	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	41 - 2528	ND*	Malathion	294 - 2528	ND*
Acetamiprid	41 - 2528	ND*	Metalaxyl	46 - 2528	ND*
Abamectin	>301	ND*	Methiocarb	42 - 2528	ND*
Azoxystrobin	43 - 2528	ND*	Methomyl	43 - 2528	ND*
Bifenazate	31 - 2528	ND*	MGK 264 1	175 - 2528	ND*
Boscalid	38 - 2528	ND*	MGK 264 2	109 - 2528	ND*
Carbaryl	40 - 2528	ND*	Myclobutanil	45 - 2528	ND*
Carbofuran	44 - 2528	ND*	Naled	47 - 2528	ND*
Chlorantraniliprole	36 - 2528	ND*	Oxamyl	42 - 2528	ND*
Chlorpyrifos	44 - 2528	ND*	Paclobutrazol	46 - 2528	ND*
Clofentezine	306 - 2528	ND*	Permethrin	293 - 2528	ND*
Diazinon	290 - 2528	ND*	Phosmet	45 - 2528	ND*
Dichlorvos	>291	ND*	Prophos	297 - 2528	ND*
Dimethoate	41 - 2528	ND*	Propoxur	45 - 2528	ND*
E-Fenproximate	293 - 2528	ND*	Pyridaben	299 - 2528	ND*
Etofenprox	42 - 2528	ND*	Spinosad A	30 - 2528	ND*
Etoxazole	301 - 2528	ND*	Spinosad D	78 - 2528	ND*
Fenoxycarb	>48	ND*	Spiromesifen	>278	ND*
Fipronil	38 - 2528	ND*	Spirotetramat	>306	ND*
Flonicamid	48 - 2528	ND*	Spiroxamine 1	20 - 2528	ND*
Fludioxonil	>309	ND*	Spiroxamine 2	24 - 2528	ND*
Hexythiazox	46 - 2528	ND*	Tebuconazole	298 - 2528	ND*
Imazalil	276 - 2528	ND*	Thiacloprid	42 - 2528	ND*
Imidacloprid	44 - 2528	ND*	Thiamethoxam	39 - 2528	ND*
Kresoxim-methyl	47 - 2528	ND*	Trifloxystrobin	44 - 2528	ND*

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

N/A

FINAL APPROVAL


Tyler Wiese
18-Aug-2020
6:09 PM

PREPARED BY / DATE



Ben Minton
18-Aug-2020
6:28 PM

APPROVED BY / DATE

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