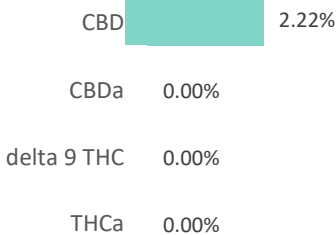
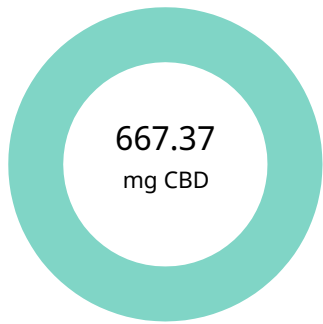


600mg THC-Free Tincture

Batch ID:	2111101	Test ID:	T000175693
Type:	Unit	Submitted:	11/12/2021 @ 12:09 PM
Test:	Potency	Started:	11/15/2021
Method:	TM14 (HPLC-DAD)	Reported:	11/16/2021

CANNABINOID PROFILE



Compound	LOQ (mg)	Result (mg)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	3.31	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	3.74	ND	ND
Cannabidiolic acid (CBDA)	5.45	ND	ND
Cannabidiol (CBD)	5.31	667.37	22.2
Delta 8-Tetrahydrocannabinol (Delta 8THC)	4.12	ND	ND
Cannabinolic Acid (CBNA)	2.36	ND	ND
Cannabinol (CBN)	1.08	1.20	0.0
Cannabigerolic acid (CBGA)	3.46	ND	ND
Cannabigerol (CBG)	0.83	1.08	0.0
Tetrahydrocannabivarinic Acid (THCVA)	2.92	ND	ND
Tetrahydrocannabivarin (THCV)	0.75	ND	ND
Cannabidivarinic Acid (CBDVA)	2.27	ND	ND
Cannabidivarin (CBDV)	1.26	ND	ND
Cannabichromenic Acid (CBCA)	1.33	ND	ND
Cannabichromene (CBC)	1.46	2.98	0.1
Total Cannabinoids		672.63	22.4
Total Potential THC**		ND	ND
Total Potential CBD**		667.37	22.2

NOTES:

% = % (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)

of Servings = 1, Sample Weight=30g

FINAL APPROVAL


Jacob Miller
16-Nov-2021
3:52 PM

PREPARED BY / DATE


Karen Winternheimer
16-Nov-2021
3:55 PM

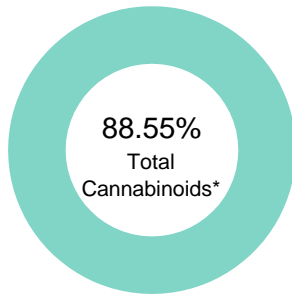
APPROVED BY / DATE

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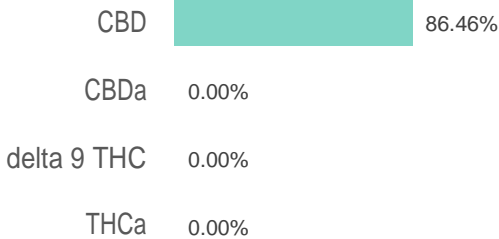


Broad Spectrum

Batch ID:	BH-BSO-CBD-1-111520	Test ID:	t000103345
Type:	Concentrate	Submitted:	11/15/2020 @ 09:09 AM
Test:	Potency	Started:	11/16/2020
Method:	TM14	Reported:	11/19/2020

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.23	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.11	ND	ND
Cannabidiolic acid (CBDA)	0.10	ND	ND
Cannabidiol (CBD)	0.21	86.46	864.6
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.12	ND	ND
Cannabinolic Acid (CBNA)	0.32	ND	ND
Cannabinol (CBN)	0.14	0.30	3.0
Cannabigerolic acid (CBGA)	0.20	ND	ND
Cannabigerol (CBG)	0.11	1.13	11.3
Tetrahydrocannabivarinic Acid (THCVA)	0.19	ND	ND
Tetrahydrocannabivarin (THCV)	0.10	ND	ND
Cannabidivarinic Acid (CBDVA)	0.10	ND	ND
Cannabidivarin (CBDV)	0.05	0.26	2.6
Cannabichromenic Acid (CBCA)	0.18	ND	ND
Cannabichromene (CBC)	0.20	0.40	4.0
Total Cannabinoids		88.55	885.5
Total Potential THC**		ND	ND
Total Potential CBD**		86.46	864.6


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

 Tyler Wiese 19-Nov-2020 4:30 PM	 Ben Minton 19-Nov-2020 5:02 PM
-----------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

PREPARED BY / DATE

APPROVED BY / DATE

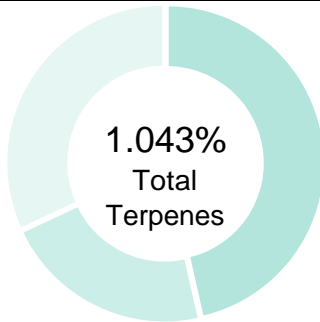
Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02

Broad Spectrum

Batch ID:	BH-BSO-CBD-1-111520	Test ID:	T000103348
Type:	Concentrate	Submitted:	11/15/2020 @ 09:09 AM
Test:	Terpenes	Started:	11/15/2020
Method:	TM10	Reported:	11/20/2020

TERPENE PROFILE


Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.322	3.22
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.468	4.68
(-)-Caryophyllene Oxide	0.000	0
p-Cymene	0.000	0
Eucalyptol	0.000	0
Geraniol	0.000	0
alpha-Humulene	0.218	2.18
(-)-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	0.035	0.35
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
Total	1.043%	10.43

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	0.468%
alpha-Humulene	0.218%
(-)-alpha-Bisabolol	0.322%

 NOTES:
 0

FINAL APPROVAL

Daniel Weidensaul
 Daniel Weidensaul
 20-Nov-2020
 11:19 AM

Greg Zimpfer
 Greg Zimpfer
 20-Nov-2020
 3:10 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

Broad Spectrum

Batch ID:	BH-BSO-CBD-1-111520	Test ID:	T000103347
Type:	Concentrate	Submitted:	11/15/2020 @ 09:09 AM
Test:	Microbial Contaminants	Started:	11/16/2020
Method:	TM24, TM25, TM26, TM27, TM28	Reported:	11/19/2020

MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
E. coli	Absent
STEC and 0157 E. coli	None Detected
Salmonella	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


Tori King
19-Nov-2020
3:44 PM

PREPARED BY / DATE


Greg Zimpfer
19-Nov-2020
7:06 PM

APPROVED BY / DATE

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Certificate #4329.03

Broad Spectrum

Batch ID:	BH-BSO-CBD-1-111520	Test ID:	T000103346
Type:	Concentrate	Submitted:	11/15/2020 @ 09:09 AM
Test:	Residual Solvents	Started:	11/19/2020
Method:	TM04	Reported:	11/19/2020

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	91 - 1818	*ND
Butanes (Isobutane, n-Butane)	178 - 3552	*ND
Methanol	57 - 1147	*ND
Pentane	93 - 1852	*ND
Ethanol	91 - 1819	*ND
Acetone	94 - 1881	*ND
Isopropyl Alcohol	99 - 1988	*ND
Hexane	6 - 114	*ND
Ethyl Acetate	94 - 1875	*ND
Benzene	0.2 - 3.7	*ND
Heptanes	92 - 1835	*ND
Toluene	17 - 335	*ND
Xylenes (m,p,o-Xylenes)	121 - 2423	*ND


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

NOTES:
N/A

FINAL APPROVAL

 Ryan Weems
19-Nov-2020
5:31 PM

PREPARED BY / DATE

 Greg Zimpfer
19-Nov-2020
7:12 PM

APPROVED BY / DATE

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Certificate #4329.02

Broad Spectrum


Batch ID:	BH-BSO-CBD-1-111520	Test ID:	T000103350
Type:	Other	Submitted:	11/15/2020 @ 09:09 AM
Test:	Metals	Started:	11/19/2020
Method:	TM19	Reported:	11/20/2020

HEAVY METALS


Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.062 - 6.24	ND
Cadmium	0.060 - 5.95	ND
Mercury	0.059 - 5.91	ND
Lead	0.063 - 6.33	ND

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

FINAL APPROVAL


Ryan Weems
20-Nov-2020
2:38 PM

PREPARED BY / DATE


Ben Minton
20-Nov-
2020

APPROVED BY / DATE

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Broad Spectrum

Batch ID:	BH-BSO-CBD-1-111520	Test ID:	T000103349
Type:	Concentrate	Submitted:	11/15/2020 @ 09:09 AM
Test:	Pesticides	Started:	11/19/2020
Method:		Reported:	11/20/2020

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	42 - 2540	ND*	Malathion	303 - 2540	ND*
Acetamiprid	42 - 2540	ND*	Metalaxyl	48 - 2540	ND*
Abamectin	>338	ND*	Methiocarb	44 - 2540	ND*
Azoxystrobin	50 - 2540	ND*	Methomyl	44 - 2540	ND*
Bifenazate	47 - 2540	ND*	MGK 264 1	152 - 2540	ND*
Boscalid	51 - 2540	ND*	MGK 264 2	118 - 2540	ND*
Carbaryl	43 - 2540	ND*	Myclobutanil	45 - 2540	ND*
Carbofuran	43 - 2540	ND*	Naled	50 - 2540	ND*
Chlorantraniliprole	54 - 2540	ND*	Oxamyl	40 - 2540	ND*
Chlorpyrifos	42 - 2540	ND*	Paclobutrazol	45 - 2540	ND*
Clofentezine	296 - 2540	ND*	Permethrin	269 - 2540	ND*
Diazinon	296 - 2540	ND*	Phosmet	49 - 2540	ND*
Dichlorvos	>291	ND*	Prophos	306 - 2540	ND*
Dimethoate	41 - 2540	ND*	Propoxur	44 - 2540	ND*
E-Fenpyroximate	282 - 2540	ND*	Pyridaben	303 - 2540	ND*
Etofenprox	43 - 2540	ND*	Spinosad A	27 - 2540	ND*
Etoxazole	299 - 2540	ND*	Spinosad D	82 - 2540	ND*
Fenoxycarb	>46	ND*	Spiromesifen	>272	ND*
Fipronil	56 - 2540	ND*	Spirotetramat	>326	ND*
Flonicamid	48 - 2540	ND*	Spiroxamine 1	18 - 2540	ND*
Fludioxonil	>304	ND*	Spiroxamine 2	24 - 2540	ND*
Hexythiazox	41 - 2540	ND*	Tebuconazole	318 - 2540	ND*
Imazalil	293 - 2540	ND*	Thiacloprid	41 - 2540	ND*
Imidacloprid	40 - 2540	ND*	Thiamethoxam	38 - 2540	ND*
Kresoxim-methyl	48 - 2540	ND*	Trifloxystrobin	45 - 2540	ND*

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

N/A

FINAL APPROVAL


 Sam Smith 20-
 Nov-2020
 2:30 PM


 Ben Minton
 20-Nov-2020
 4:32 PM

PREPARED BY / DATE

APPROVED BY / DATE

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