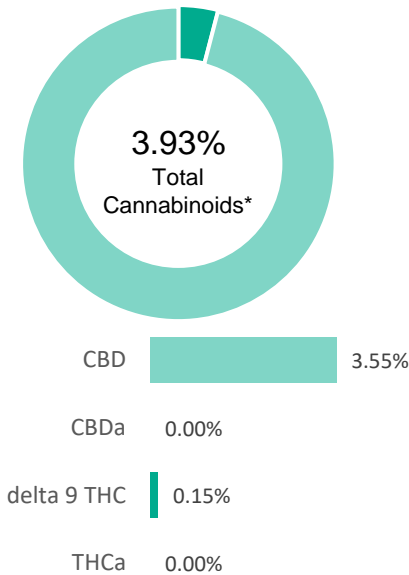


1000mg Tincture *Full Spec Analysis

Batch ID:	364321	Test ID:	T000115651
Type:	Concentrate	Submitted:	12/17/2020 @ 11:05 AM
Test:	Potency	Started:	12/18/2020
Method:	TM14	Reported:	12/21/2020

CANNABINOID PROFILE


Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.01	0.04	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.01	0.05	0.15	1.5
Cannabidiolic acid (CBDA)	0.02	0.05	ND	ND
Cannabidiol (CBD)	0.02	0.05	3.55	35.5
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.01	0.05	ND	ND
Cannabinolic Acid (CBNA)	0.01	0.03	ND	ND
Cannabinol (CBN)	0.00	0.01	0.01***	0.1****
Cannabigerolic acid (CBGA)	0.01	0.04	ND	ND
Cannabigerol (CBG)	0.00	0.01	0.10	1.0
Tetrahydrocannabivarinic Acid (THCVA)	0.01	0.04	ND	ND
Tetrahydrocannabivarin (THCV)	0.00	0.01	ND	ND
Cannabidivarinic Acid (CBDVA)	0.01	0.02	ND	ND
Cannabidivarin (CBDV)	0.00	0.01	0.01***	0.1****
Cannabichromenic Acid (CBCA)	0.00	0.02	ND	ND
Cannabichromene (CBC)	0.00	0.02	0.11	1.1
Total Cannabinoids			3.93	39.3
Total Potential THC**			0.15	1.5
Total Potential CBD**			3.55	35.5

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.

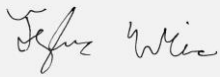

$$\text{Total THC} = \text{THC} + (\text{THCa} \times (0.877)) \text{ and}$$

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

***Analyte detected. Value below defined Limit of Quantitation.

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

FINAL APPROVAL

 Tyler Wiese 21-Dec-2020 5:04 PM	 Greg Zimpfer 21-Dec-2020 5:09 PM
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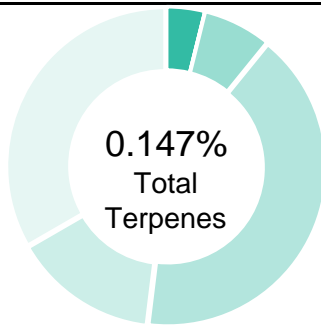
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Certificate #4329.02

1000mg Tincture *Full Spec Analysis

Batch ID:	364321	Test ID:	t000115654
Type:	Concentrate	Submitted:	12/17/2020 @ 11:05 AM
Test:	Terpenes	Started:	12/21/2020
Method:	TM22	Reported:	12/22/2020

TERPENE PROFILE


Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.043	0.43
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.053	0.53
(-)-Caryophyllene Oxide	0.012	0.12
p-Cymene	0.000	0
Eucalyptol	0.001	0.01
Geraniol	0.000	0
alpha-Humulene	0.019	0.19
(-)-Isopulegol	0.000	0
d-Limonene	0.000	0
Linalool	0.009	0.09
beta-Myrcene	0.005	0.05
cis-Nerolidol	0.000	0
trans-Nerolidol	0.005	0.05
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
	0.147%	1.47

PREDOMINANT TERPENES

alpha-Pinene	0.000%
(-)-beta-Pinene	0.000%
beta-Myrcene	0.005%
delta-3-Carene	0.000%
alpha-Terpinene	0.000%
d-Limonene	0.000%
Linalool	0.009%
beta-Caryophyllene	0.053%
alpha-Humulene	0.019%
(-)-alpha-Bisabolol	0.043%

 NOTES:
 0

FINAL APPROVAL

 Michele Gagnon 22-Dec-2020 2:12 PM	 Greg Zimpfer 22-Dec-2020 4:04 PM
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Certificate #4329.02

1000mg Tincture *Full Spec Analysis

Batch ID:	364321	Test ID:	T000115655
Type:	Concentrate	Submitted:	12/17/2020 @ 11:05 AM
Test:	Pesticides	Started:	12/17/2020
Method:	TM17	Reported:	12/21/2020


PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	43 - 2512	ND*	Malathion	276 - 2512	ND*
Acetamiprid	45 - 2512	ND*	Metalaxyl	45 - 2512	ND*
Abamectin	>314	ND*	Methiocarb	45 - 2512	ND*
Azoxystrobin	40 - 2512	ND*	Methomyl	44 - 2512	ND*
Bifenazate	120 - 2512	ND*	MGK 264 1	176 - 2512	ND*
Boscalid	60 - 2512	ND*	MGK 264 2	116 - 2512	ND*
Carbaryl	40 - 2512	ND*	Myclobutanil	40 - 2512	ND*
Carbofuran	45 - 2512	ND*	Naled	49 - 2512	ND*
Chlorantraniliprole	41 - 2512	ND*	Oxamyl	35 - 2512	ND*
Chlorpyrifos	47 - 2512	ND*	Paclobutrazol	44 - 2512	ND*
Clofentezine	283 - 2512	ND*	Permethrin	315 - 2512	ND*
Diazinon	289 - 2512	ND*	Phosmet	39 - 2512	ND*
Dichlorvos	>273	ND*	Prophos	305 - 2512	ND*
Dimethoate	45 - 2512	ND*	Propoxur	44 - 2512	ND*
E-Fenpyroximate	274 - 2512	ND*	Pyridaben	284 - 2512	ND*
Etofenprox	41 - 2512	ND*	Spinosad A	29 - 2512	ND*
Etoxazole	282 - 2512	ND*	Spinosad D	79 - 2512	ND*
Fenoxycarb	>45	ND*	Spiromesifen	>274	ND*
Fipronil	40 - 2512	ND*	Spirotetramat	>280	ND*
Flonicamid	43 - 2512	ND*	Spiroxamine 1	20 - 2512	ND*
Fludioxonil	>331	ND*	Spiroxamine 2	24 - 2512	ND*
Hexythiazox	37 - 2512	ND*	Tebuconazole	286 - 2512	ND*
Imazalil	276 - 2512	ND*	Thiacloprid	42 - 2512	ND*
Imidacloprid	49 - 2512	ND*	Thiamethoxam	49 - 2512	ND*
Kresoxim-methyl	48 - 2512	ND*	Trifloxystrobin	41 - 2512	ND*

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

N/A

FINAL APPROVAL

 Tyler Wiese
 21-Dec-2020
 3:23 PM

 Greg Zimpfer
 21-Dec-2020
 3:43 PM

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1000mg Tincture *Full Spec Analysis

Batch ID:	364321	Test ID:	T000115652
Type:	Concentrate	Submitted:	12/17/2020 @ 11:05 AM
Test:	Residual Solvents	Started:	12/21/2020
Method:	TM04	Reported:	12/21/2020

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	112 - 2237	*ND
Butanes (Isobutane, n-Butane)	210 - 4208	*ND
Methanol	63 - 1260	*ND
Pentane	103 - 2067	*ND
Ethanol	103 - 2067	*ND
Acetone	101 - 2020	*ND
Isopropyl Alcohol	104 - 2086	*ND
Hexane	6 - 123	*ND
Ethyl Acetate	101 - 2021	*ND
Benzene	0.2 - 3.9	*ND
Heptanes	103 - 2051	*ND
Toluene	18 - 368	*ND
Xylenes (m,p,o-Xylenes)	135 - 2691	*ND

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

NOTES:
N/A

FINAL APPROVAL

Daniel Weidensaul
21-Dec-2020
2:47 PMGreg Zimpfer
21-Dec-2020
3:14 PM

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Certificate #4329.02

1000mg Tincture *Full Spec Analysis


Batch ID:	364321	Test ID:	T000115656
Type:	Other	Submitted:	12/17/2020 @ 11:05 AM
Test:	Metals	Started:	12/21/2020
Method:	TM19	Reported:	12/21/2020

HEAVY METALS


Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.068 - 6.78	ND
Cadmium	0.070 - 6.96	ND
Mercury	0.071 - 7.07	ND
Lead	0.066 - 6.63	ND

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

FINAL APPROVAL


Ryan Weems
21-Dec-2020
6:25 PM

PREPARED BY / DATE


Greg Zimpfer
21-Dec-2020
9:21 PM

APPROVED BY / DATE

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1000mg Tincture *Full Spec Analysis

Batch ID:	364321	Test ID:	T000115653
Type:	Edible	Submitted:	12/17/2020 @ 11:05 AM
Test:	Microbial Contaminants	Started:	12/18/2020
Method:	TM24, TM25, TM26, TM27, TM28	Reported:	12/21/2020

MICROBIAL CONTAMINANTS

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


Sarah Henning
21-Dec-2020
11:51 AM
Greg Zimpfer
21-Dec-2020
2:45 PM

PREPARED BY / DATE

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Certificate #4329.03