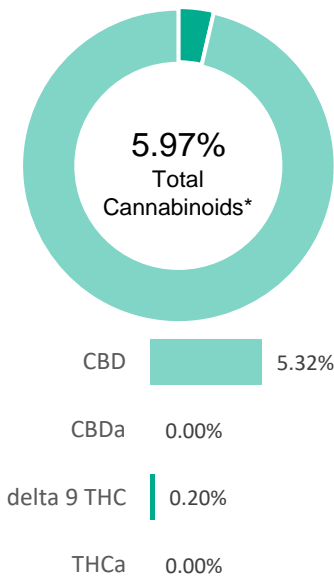


1500mg Tincture *Full Spec Analysis

Batch ID:	544510	Test ID:	T000123002
Type:	Concentrate	Submitted:	02/05/2021 @ 11:34 AM
Test:	Potency	Started:	2/8/2021
Method:	TM14	Reported:	2/9/2021

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.01	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.01	0.20	2.0
Cannabidiolic acid (CBDA)	0.02	ND	ND
Cannabidiol (CBD)	0.02	5.32	53.2
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.01	ND	ND
Cannabinolic Acid (CBNA)	0.01	ND	ND
Cannabinol (CBN)	0.00	0.01	0.1
Cannabigerolic acid (CBGA)	0.01	ND	ND
Cannabigerol (CBG)	0.00	0.19	1.9
Tetrahydrocannabivarinic Acid (THCVA)	0.01	ND	ND
Tetrahydrocannabivarin (THCV)	0.00	ND	ND
Cannabidivarinic Acid (CBDVA)	0.01	ND	ND
Cannabidivarin (CBDV)	0.00	0.02	0.2
Cannabichromenic Acid (CBCA)	0.00	ND	ND
Cannabichromene (CBC)	0.01	0.23	2.3
Total Cannabinoids		5.97	59.7
Total Potential THC**		0.20	2.0
Total Potential CBD**		5.32	53.2

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

	Mara Miller 9-Feb-2021 2:25 PM		Greg Zimpfer 9-Feb-2021 3:19 PM
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PREPARED BY / DATE

APPROVED BY / DATE

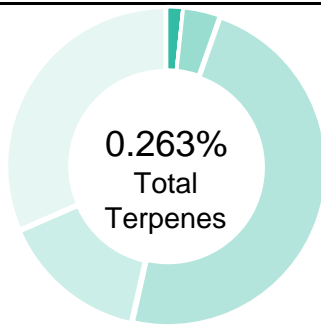
Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. 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

1500mg Tincture *Full Spec Analysis

Batch ID:	544510	Test ID:	T000125698
Type:	Concentrate	Submitted:	02/23/2021 @ 10:57 AM
Test:	Terpenes	Started:	2/25/2021
Method:	TM22	Reported:	2/26/2021

TERPENE PROFILE




Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.076	0.76
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.116	1.16
(-)-Caryophyllene Oxide	0.007	0.07
p-Cymene	0.000	0
Eucalyptol	0.000	0
Geraniol	0.000	0
alpha-Humulene	0.036	0.36
(-)-Isopulegol	0.000	0
d-Limonene	0.000	0
Linalool	0.009	0.09
beta-Myrcene	0.004	0.04
cis-Nerolidol	0.000	0
trans-Nerolidol	0.008	0.08
Ocimene	0.000	0
beta-Ocimene	0.001	0.01
alpha-Pinene	0.000	0
(-)-beta-Pinene	0.000	0
alpha-Terpinene	0.000	0
gamma-Terpinene	0.000	0
Terpinolene	0.006	0.06
	0.263%	2.63

PREDOMINANT TERPENES

alpha-Pinene	0.000%
(-)-beta-Pinene	0.000%
beta-Myrcene	0.004%
delta-3-Carene	0.000%
alpha-Terpinene	0.000%
d-Limonene	0.000%
Linalool	0.009%
beta-Caryophyllene	0.116%
alpha-Humulene	0.036%
(-)-alpha-Bisabolol	0.076%

 NOTES:
 0

FINAL APPROVAL

 Ryan Weems 26-Feb-2021 3:37 PM	 Greg Zimpfer 26-Feb-2021 6:09 PM
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Certificate #4329.02

1500mg Tincture *Full Spec Analysis

Batch ID:	544510	Test ID:	T000125702
Type:	Concentrate	Submitted:	02/23/2021 @ 10:57 AM
Test:	Residual Solvents	Started:	2/26/2021
Method:	TM04	Reported:	2/26/2021


RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	90 - 1809	*ND
Butanes (Isobutane, n-Butane)	174 - 3473	*ND
Methanol	53 - 1060	*ND
Pentane	86 - 1726	*ND
Ethanol	85 - 1704	144
Acetone	86 - 1730	*ND
Isopropyl Alcohol	88 - 1751	*ND
Hexane	5 - 105	*ND
Ethyl Acetate	87 - 1747	*ND
Benzene	0.2 - 3.5	*ND
Heptanes	86 - 1725	*ND
Toluene	16 - 314	*ND
Xylenes (m,p,o-Xylenes)	114 - 2285	*ND


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

NOTES:
N/A

FINAL APPROVAL


 Mara Miller
 26-Feb-2021
 4:02 PM

PREPARED BY / DATE


 Greg Zimpfer
 26-Feb-2021
 6:08 PM

APPROVED BY / DATE

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Certificate #4329.02

1500mg Tincture *Full Spec Analysis

Batch ID:	544510	Test ID:	T000125700
Type:	Concentrate	Submitted:	02/23/2021 @ 10:57 AM
Test:	Microbial Contaminants	Started:	2/23/2021
Method:	TM24, TM25, TM26, TM27, TM28	Reported:	2/26/2021

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


Robert Belfon
26-Feb-2021
2:44 PM
Greg Zimpfer
26-Feb-2021
6:05 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.03

1500mg Tincture *Full Spec Analysis


Batch ID:	544510	Test ID:	T000125699
Type:	Concentrate	Submitted:	02/23/2021 @ 10:57 AM
Test:	Pesticides	Started:	2/25/2021
Method:	TM17	Reported:	3/1/2021

PESTICIDE RESIDUE


Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	35 - 2604	ND*	Malathion	307 - 2604	ND*
Acetamiprid	43 - 2604	ND*	Metalaxyl	42 - 2604	ND*
Abamectin	>360	ND*	Methiocarb	41 - 2604	ND*
Azoxystrobin	45 - 2604	ND*	Methomyl	45 - 2604	ND*
Bifenazate	29 - 2604	ND*	MGK 264 1	169 - 2604	ND*
Boscalid	45 - 2604	ND*	MGK 264 2	106 - 2604	ND*
Carbaryl	41 - 2604	ND*	Myclobutanil	40 - 2604	ND*
Carbofuran	42 - 2604	ND*	Naled	44 - 2604	ND*
Chlorantraniliprole	39 - 2604	ND*	Oxamyl	41 - 2604	ND*
Chlorpyrifos	45 - 2604	ND*	Paclobutrazol	43 - 2604	ND*
Clofentezine	284 - 2604	ND*	Permethrin	283 - 2604	ND*
Diazinon	296 - 2604	ND*	Phosmet	44 - 2604	ND*
Dichlorvos	>302	ND*	Propfos	315 - 2604	ND*
Dimethoate	43 - 2604	ND*	Propxur	41 - 2604	ND*
E-Fenpyroximate	295 - 2604	ND*	Pyridaben	297 - 2604	ND*
Etofenprox	44 - 2604	ND*	Spinosad A	31 - 2604	ND*
Etoazole	305 - 2604	ND*	Spinosad D	80 - 2604	ND*
Fenoxycarb	>32	ND*	Spiromesifen	>289	ND*
Fipronil	41 - 2604	ND*	Spirotetramat	>316	ND*
Flonicamid	40 - 2604	ND*	Spiroxamine 1	18 - 2604	ND*
Fludioxonil	>302	ND*	Spiroxamine 2	23 - 2604	ND*
Hexythiazox	38 - 2604	ND*	Tebuconazole	301 - 2604	ND*
Imazalil	288 - 2604	ND*	Thiacloprid	45 - 2604	ND*
Imidacloprid	44 - 2604	ND*	Thiamethoxam	41 - 2604	ND*
Kresoxim-methyl	46 - 2604	ND*	Trifloxystrobin	43 - 2604	ND*

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

N/A

FINAL APPROVAL

 Tyler Wiese
 1-Mar-2021
 12:03 PM

PREPARED BY / DATE


 Ben Minton
 1-Mar-2021
 1:06 PM

APPROVED BY / DATE

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1500mg Tincture *Full Spec Analysis

Batch ID:	544510	Test ID:	T000125701
Type:	Other	Submitted:	02/23/2021 @ 10:57 AM
Test:	Metals	Started:	2/26/2021
Method:	TM19	Reported:	3/1/2021

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.068 - 6.77	ND
Cadmium	0.070 - 7.05	ND
Mercury	0.070 - 6.98	ND
Lead	0.069 - 6.91	ND

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

FINAL APPROVAL

Daniel Weidensaul
1-Mar-2021
12:44 PMGreg Zimpfer
1-Mar-2021
2:45 PM

PREPARED BY / DATE

APPROVED BY / DATE

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