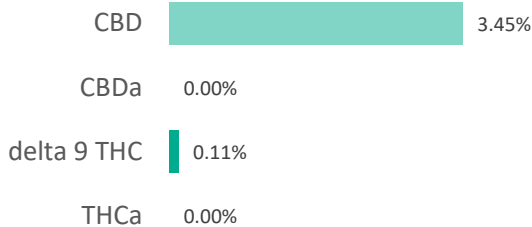
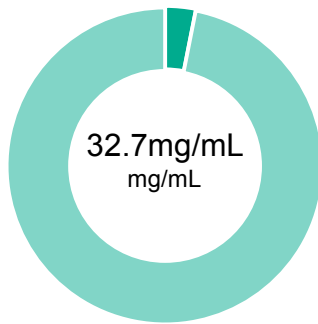


1000mg Tincture

Batch ID:	072919- TM1K	Test ID:	5722440.0026
Reported:	23-Aug-2019	Method:	TM14
Type:	Solution		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.77	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.39	1.10	1.1
Cannabidiolic acid (CBDA)	0.75	0.00	0.0
Cannabidiol (CBD)	0.42	32.70	34.5
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.42	0.00	0.0
Cannabinolic Acid (CBNA)	1.06	0.00	0.0
Cannabinol (CBN)	0.47	0.00	0.0
Cannabigerolic acid (CBGA)	0.67	0.00	0.0
Cannabigerol (CBG)	0.38	1.40	1.4
Tetrahydrocannabivarinic Acid (THCVA)	0.66	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.34	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.70	0.00	0.0
Cannabidivarin (CBDV)	0.38	0.00	0.0
Cannabichromenic Acid (CBCA)	0.58	0.00	0.0
Cannabichromene (CBC)	0.70	1.70	1.8
Total Cannabinoids		36.90	38.80
Total Potential THC**		1.10	1.11
Total Potential CBD**		32.70	34.49

NOTES:


Density = 0.947922g/mL

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.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$
FINAL APPROVAL


Daniel Weidensaul
 23-Aug-2019
 1:44 PM

PREPARED BY / DATE



David Green
 23-Aug-2019
 2:32 PM

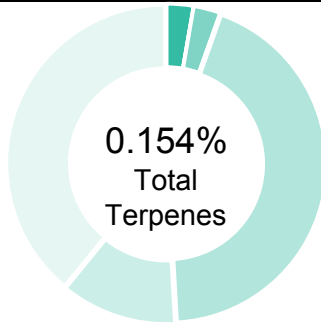
APPROVED BY / DATE

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



1000mg Tincture

Batch ID:	072919-TM1K	Test ID:	2150648.0029
Reported:	12-Sep-2019	Method:	TM10
Type:	Concentrate		
Test:	Terpenes		

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	0.048	0.48
(-)-Caryophyllene Oxide	0.043	0.43
p-Cymene	0.000	0
Eucalyptol	0.001	0.01
Geraniol	0.000	0
alpha-Humulene	0.013	0.13
(-)-Isopulegol	0.000	0
d-Limonene	0.003	0.03
Linalool	0.000	0
beta-Myrcene	0.003	0.03
cis-Nerolidol	0.000	0
trans-Nerolidol	0.000	0
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
	0.154%	1.54

PREDOMINANT TERPENES

alpha-Pinene	0.000%
(-)-beta-Pinene	0.000%
beta-Myrcene	0.003%
delta-3-Carene	0.000%
alpha-Terpinene	0.000%
d-Limonene	0.003%
Linalool	0.000%
beta-Caryophyllene	0.048%
alpha-Humulene	0.013%
(-)-alpha-Bisabolol	0.043%

 NOTES:
 0

FINAL APPROVAL

 Daniel Weidensaul 12-Sep-2019 10:31 AM	 David Green 12-Sep-2019 11:06 AM
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PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC. 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

1000mg Tincture

Batch ID:	072919- TM1K	Test ID:	9599928.021
Reported:	23-Aug-2019	Method:	Edible - Test Methods: TM05, TM06
Type:	Edible		
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
23-Aug-2019
3:21 PMDavid Green
23-Aug-2019
3:32 PM

PREPARED BY / DATE

APPROVED BY / DATE

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1000mg Tincture

Batch ID:	072919- TM1K	Test ID:	1376386.014
Reported:	23-Aug-2019	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS

Solvent	Reportable Range (ppm)	Result (ppm)
Propane	100 - 2000	0
Butanes (Isobutane, n-Butane)	100 - 2000	0
Pentane	100 - 2000	0
Ethanol	100 - 2000	0
Acetone	100 - 2000	0
Isopropyl Alcohol	100 - 2000	0
Hexane	6 - 120	0
Benzene	0.2 - 4	0.0
Heptanes	100 - 2000	0
Toluene	18 - 360	0
Xylenes (m,p,o-Xylenes)	43 - 860	0

NOTES:

Free from visual mold, mildew, and foreign matter.

FINAL APPROVAL

 Sam Smith 23-Aug-2019 6:07 AM	 Greg Zimpfer 23-Aug-2019 8:08 AM
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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

1000mg Tincture

Batch ID:	072919- TM1K	Test ID:	8668424.0062
Reported:	26-Aug-2019	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	56 - 2585	ND*	Malathion	56 - 2585	ND*
Acetamiprid	56 - 2585	ND*	Metalaxyl	335 - 2585	ND*
Avermectin	335 - 2585	ND*	Methiocarb	56 - 2585	ND*
Azoxystrobin	56 - 2585	ND*	Methomyl	56 - 2585	ND*
Bifenazate	56 - 2585	ND*	MGK 264 1	56 - 2585	ND*
Boscalid	335 - 2585	ND*	MGK 264 2	335 - 2585	ND*
Carbaryl	56 - 2585	ND*	Myclobutanil	335 - 2585	ND*
Carbofuran	56 - 2585	ND*	Naled	335 - 2585	ND*
Chlorantraniliprole	56 - 2585	ND*	Oxamyl	56 - 2585	ND*
Chlorpyrifos	335 - 2585	ND*	Paclobutrazol	56 - 2585	ND*
Clofentezine	56 - 2585	ND*	Permethrin	335 - 2585	ND*
Diazinon	56 - 2585	ND*	Phosmet	56 - 2585	ND*
Dichlorvos	335 - 2585	ND*	Prophos	335 - 2585	ND*
Dimethoate	56 - 2585	ND*	Propoxur	335 - 2585	ND*
E-Fenpyroximate	335 - 2585	ND*	Pyridaben	335 - 2585	ND*
Etofenprox	335 - 2585	ND*	Spinosad A	56 - 2585	ND*
Etoxazole	335 - 2585	ND*	Spinosad D	335 - 2585	ND*
Fenoxycarb	56 - 2585	ND*	Spiromesifen	56 - 2585	ND*
Fipronil	335 - 2585	ND*	Spirotetramat	335 - 2585	ND*
Flonicamid	56 - 2585	ND*	Spiroxamine 1	56 - 2585	ND*
Fludioxonil	335 - 2585	ND*	Spiroxamine 2	56 - 2585	ND*
Hexythiazox	335 - 2585	ND*	Tebuconazole	56 - 2585	ND*
Imazalil	335 - 2585	ND*	Thiacloprid	56 - 2585	ND*
Imidacloprid	56 - 2585	ND*	Thiamethoxam	56 - 2585	ND*
Kresoxim-methyl	56 - 2585	ND*	Trifloxystrobin	335 - 2585	ND*

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

N/A

FINAL APPROVAL


 Sam Smith
 26-Aug-2019
 10:12 AM
 PREPARED BY / DATE


 David Green
 26-Aug-2019
 10:43 AM
 APPROVED BY / DATE

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