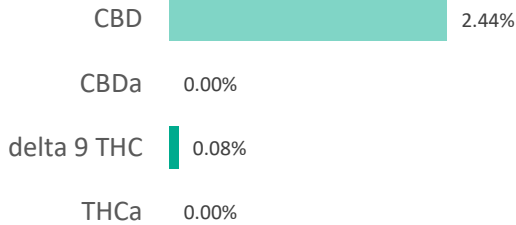
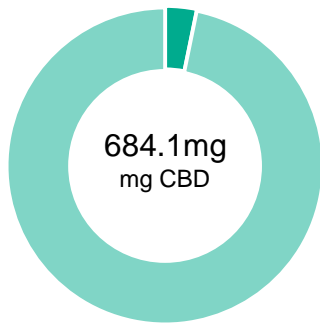


#5 600mg NATURAL TINCTURE

Batch ID:	51942	Test ID:	5452863.0060
Reported:	3-Jan-2020	Method:	TM14
Type:	Unit		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (mg)	Result (mg)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	2.95	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	1.48	22.70	0.8
Cannabidiolic acid (CBDA)	2.19	0.00	0.0
Cannabidiol (CBD)	1.23	684.10	24.4
Delta 8-Tetrahydrocannabinol (Delta 8THC)	1.62	0.00	0.0
Cannabinolic Acid (CBNA)	4.05	0.00	0.0
Cannabinol (CBN)	1.79	0.00	0.0
Cannabigerolic acid (CBGA)	2.58	0.00	0.0
Cannabigerol (CBG)	1.45	13.50	0.5
Tetrahydrocannabivarinic Acid (THCVA)	2.53	0.00	0.0
Tetrahydrocannabivarin (THCV)	1.32	0.00	0.0
Cannabidivarinic Acid (CBDVA)	2.04	0.00	0.0
Cannabidivarin (CBDV)	1.12	2.60	0.1
Cannabichromenic Acid (CBCA)	2.21	0.00	0.0
Cannabichromene (CBC)	2.67	35.30	1.3
Total Cannabinoids		758.20	27.08
Total Potential THC**		22.70	0.81
Total Potential CBD**		684.10	24.43

NOTES:

of Servings = 1, Sample Weight=28g

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


Ryan Weems
3-Jan-2020
3:00 PM

PREPARED BY / DATE



Greg Zimpfer
3-Jan-2020
3:52 PM

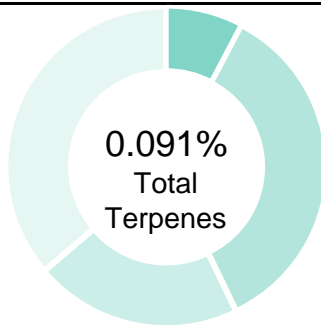
APPROVED BY / DATE

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#5 600mg NATURAL TINCTURE

Batch ID:	51942	Test ID:	8787489.0012
Reported:	8-Jan-2020	Method:	TM10
Type:	Concentrate		
Test:	Terpenes		

TERPENE PROFILE




Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.033	0.33
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.032	0.32
(-)-Caryophyllene Oxide	0.000	0
p-Cymene	0.000	0
Eucalyptol	0.000	0
Geraniol	0.000	0
alpha-Humulene	0.019	0.19
(-)-Isopulegol	0.000	0
d-Limonene	0.007	0.07
Linalool	0.000	0
beta-Myrcene	0.000	0
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
	0.091%	0.91

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	0.007%
Linalool	0.000%
beta-Caryophyllene	0.032%
alpha-Humulene	0.019%
(-)-alpha-Bisabolol	0.033%

 NOTES:
 0

FINAL APPROVAL

 Daniel Weidensaul 7-Jan-2020 5:04 PM	 Chris Jungling 8-Jan-2020 5:25 AM
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PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

#5 600mg NATURAL TINCTURE

Batch ID:	51942	Test ID:	5357694.009
Reported:	8-Jan-2020	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

	Ryan Weems 7-Jan-2020 2:06 PM		Greg Zimpfer 8-Jan-2020 5:52 AM
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PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

#5 600mg NATURAL TINCTURE

Batch ID:	51942	Test ID:	2761762.023
Reported:	5-Jan-2020	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
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**
Sarah Henning
5-Jan-2020
12:37 PM
Mike Branvold
5-Jan-2020
4:54 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.03


#5 600mg NATURAL TINCTURE

Batch ID:	51942	Test ID:	T000048831
Reported:	15-Jan-2020	Method:	Arsenic = Arsenic EPA 6020A (mod), Cadmium = Cadmium EPA 6020A (mod), Lead = Lead EPA 6020A (mod), Mercury = Mercury EPA 6020A (mod)
Type:	Other		
Test:	Metals		

HEAVY METALS

Compound	Reporting Limit (ppm)	Result (ppm)
Arsenic	0.05	<0.05
Cadmium	0.05	<0.05
Lead	0.05	<0.05
Mercury	0.05	<0.05

FINAL APPROVAL

 Sam Smith
15-Jan-2020
10:20 AM

PREPARED BY / DATE

 David Green
15-Jan-2020
11:03 AM

APPROVED BY / DATE

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#5 600mg NATURAL TINCTURE

Batch ID:	51942	Test ID:	3589994.0018
Reported:	8-Jan-2020	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		

PESTICIDE RESIDUE


Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	52 - 2393	ND*	Malathion	52 - 2393	ND*
Acetamiprid	52 - 2393	ND*	Metalaxyl	310 - 2393	ND*
Avermectin	310 - 2393	ND*	Methiocarb	52 - 2393	ND*
Azoxystrobin	52 - 2393	ND*	Methomyl	52 - 2393	ND*
Bifenazate	52 - 2393	ND*	MGK 264 1	52 - 2393	ND*
Boscalid	310 - 2393	ND*	MGK 264 2	310 - 2393	ND*
Carbaryl	52 - 2393	ND*	Myclobutanil	310 - 2393	ND*
Carbofuran	52 - 2393	ND*	Naled	310 - 2393	ND*
Chlorantraniliprole	52 - 2393	ND*	Oxamyl	52 - 2393	ND*
Chlorpyrifos	310 - 2393	ND*	Paclobutrazol	52 - 2393	ND*
Clofentezine	52 - 2393	ND*	Permethrin	310 - 2393	ND*
Diazinon	52 - 2393	ND*	Phosmet	52 - 2393	ND*
Dichlorvos	310 - 2393	ND*	Prophos	310 - 2393	ND*
Dimethoate	52 - 2393	ND*	Propoxur	310 - 2393	ND*
E-Fenpyroximate	310 - 2393	ND*	Pyridaben	310 - 2393	ND*
Etofenprox	310 - 2393	ND*	Spinosad A	52 - 2393	ND*
Etoxazole	310 - 2393	ND*	Spinosad D	310 - 2393	ND*
Fenoxycarb	52 - 2393	ND*	Spiromesifen	52 - 2393	ND*
Fipronil	310 - 2393	ND*	Spirotetramat	310 - 2393	ND*
Flonicamid	52 - 2393	ND*	Spiroxamine 1	52 - 2393	ND*
Fludioxonil	310 - 2393	ND*	Spiroxamine 2	52 - 2393	ND*
Hexythiazox	310 - 2393	ND*	Tebuconazole	52 - 2393	ND*
Imazalil	310 - 2393	ND*	Thiacloprid	52 - 2393	ND*
Imidacloprid	52 - 2393	ND*	Thiamethoxam	52 - 2393	ND*
Kresoxim-methyl	52 - 2393	ND*	Trifloxystrobin	310 - 2393	ND*

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

N/A

FINAL APPROVAL


 Sam Smith
 8-Jan-2020
 7:16 AM
 PREPARED BY / DATE


 Greg Zimpfer
 8-Jan-2020
 7:24 AM
 APPROVED BY / DATE

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