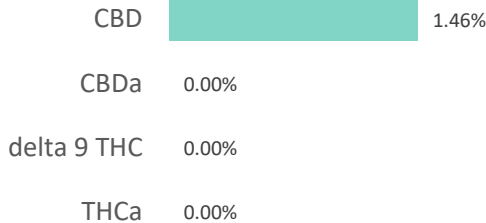
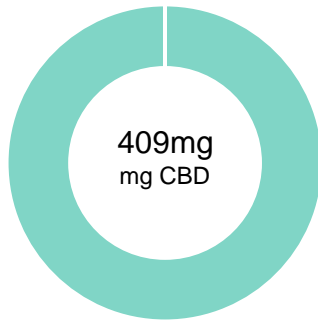


#4 600mg LEMON TINCTURE

Batch ID:	51941	Test ID:	5452863.0059
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)	3.05	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	1.52	0.00	0.0
Cannabidiolic acid (CBDA)	2.27	0.00	0.0
Cannabidiol (CBD)	1.27	409.00	14.6
Delta 8-Tetrahydrocannabinol (Delta 8THC)	1.67	0.00	0.0
Cannabinolic Acid (CBNA)	4.19	0.00	0.0
Cannabinol (CBN)	1.85	0.00	0.0
Cannabigerolic acid (CBGA)	2.67	0.00	0.0
Cannabigerol (CBG)	1.50	32.00	1.1
Tetrahydrocannabivarinic Acid (THCVA)	2.62	0.00	0.0
Tetrahydrocannabivarin (THCV)	1.36	34.90	1.2
Cannabidivarinic Acid (CBDVA)	2.11	0.00	0.0
Cannabidivarin (CBDV)	1.15	177.70	6.3
Cannabichromenic Acid (CBCA)	2.29	0.00	0.0
Cannabichromene (CBC)	2.76	0.00	0.0
Total Cannabinoids		653.60	23.34
Total Potential THC**		0.00	0.00
Total Potential CBD**		409.00	14.61

NOTES:

of Servings = 1, Sample Weight=28g

An Interfering peak was detected near CBD which may impact the accuracy of CBD.

% = % (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))

FINAL APPROVAL


Ryan Weems
3-Jan-2020
3:00 PM

PREPARED BY / DATE



Greg Zimpfer
3-Jan-2020
3:52 PM

APPROVED BY / DATE

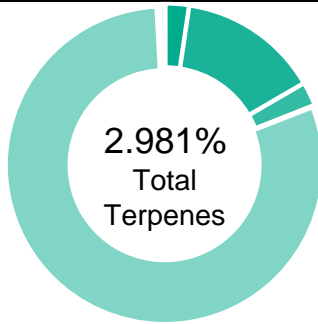
Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods.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



Certificate #4329.02

#4 600mg LEMON TINCTURE

Batch ID:	51941	Test ID:	8787489.0011
Reported:	8-Jan-2020	Method:	TM10
Type:	Concentrate		
Test:	Terpenes		

TERPENE PROFILE




Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.015	0.15
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.008	0.08
(-)-Caryophyllene Oxide	0.000	0
p-Cymene	0.000	0
Eucalyptol	0.000	0
Geraniol	0.000	0
alpha-Humulene	0.000	0
(-)-Isopulegol	0.000	0
d-Limonene	2.187	21.87
Linalool	0.000	0
beta-Myrcene	0.065	0.65
cis-Nerolidol	0.000	0
trans-Nerolidol	0.000	0
Ocimene	0.002	0.02
beta-Ocimene	0.000	0
alpha-Pinene	0.064	0.64
(-)-beta-Pinene	0.390	3.9
alpha-Terpinene	0.002	0.02
gamma-Terpinene	0.243	2.43
Terpinolene	0.005	0.05
	2.981%	29.81

PREDOMINANT TERPENES

alpha-Pinene	0.064%
(-)-beta-Pinene	0.390%
beta-Myrcene	0.065%
delta-3-Carene	0.000%
alpha-Terpinene	0.002%
d-Limonene	2.187%
Linalool	0.000%
beta-Caryophyllene	0.008%
alpha-Humulene	0.000%
(-)-alpha-Bisabolol	0.015%

 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

#4 600mg LEMON TINCTURE

Batch ID:	51941	Test ID:	5357694.008
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

#4 600mg LEMON TINCTURE

Batch ID:	51941	Test ID:	2761762.019
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

#4 600mg LEMON TINCTURE

Batch ID:	51941	Test ID:	T000048825
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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#4 600mg LEMON TINCTURE

Batch ID:	51941	Test ID:	3589994.0013
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	56 - 2586	ND*	Malathion	56 - 2586	ND*
Acetamiprid	56 - 2586	ND*	Metalaxyl	335 - 2586	ND*
Avermectin	335 - 2586	ND*	Methiocarb	56 - 2586	ND*
Azoxystrobin	56 - 2586	ND*	Methomyl	56 - 2586	ND*
Bifenazate	56 - 2586	ND*	MGK 264 1	56 - 2586	ND*
Boscalid	335 - 2586	ND*	MGK 264 2	335 - 2586	ND*
Carbaryl	56 - 2586	ND*	Myclobutanil	335 - 2586	ND*
Carbofuran	56 - 2586	ND*	Naled	335 - 2586	ND*
Chlorantraniliprole	56 - 2586	ND*	Oxamyl	56 - 2586	ND*
Chlorpyrifos	335 - 2586	ND*	Paclobutrazol	56 - 2586	ND*
Clofentezine	56 - 2586	ND*	Permethrin	335 - 2586	ND*
Diazinon	56 - 2586	ND*	Phosmet	56 - 2586	ND*
Dichlorvos	335 - 2586	ND*	Prophos	335 - 2586	ND*
Dimethoate	56 - 2586	ND*	Propoxur	335 - 2586	ND*
E-Fenpyroximate	335 - 2586	ND*	Pyridaben	335 - 2586	ND*
Etofenprox	335 - 2586	ND*	Spinosad A	56 - 2586	ND*
Etoxazole	335 - 2586	ND*	Spinosad D	335 - 2586	ND*
Fenoxycarb	56 - 2586	ND*	Spiromesifen	56 - 2586	ND*
Fipronil	335 - 2586	ND*	Spirotetramat	335 - 2586	ND*
Flonicamid	56 - 2586	ND*	Spiroxamine 1	56 - 2586	ND*
Fludioxonil	335 - 2586	ND*	Spiroxamine 2	56 - 2586	ND*
Hexythiazox	335 - 2586	ND*	Tebuconazole	56 - 2586	ND*
Imazalil	335 - 2586	ND*	Thiacloprid	56 - 2586	ND*
Imidacloprid	56 - 2586	ND*	Thiamethoxam	56 - 2586	ND*
Kresoxim-methyl	56 - 2586	ND*	Trifloxystrobin	335 - 2586	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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