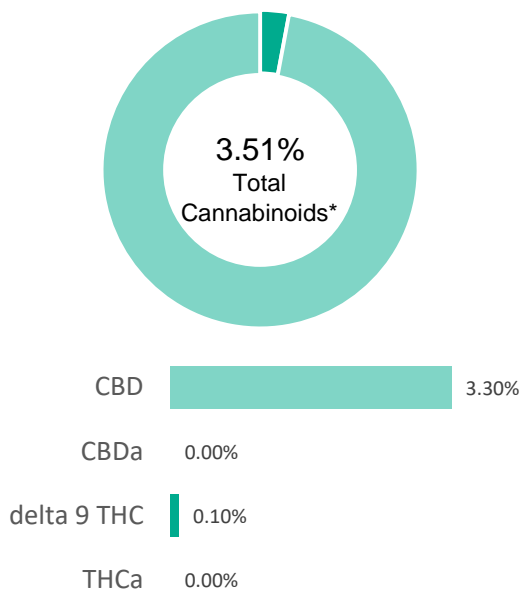


900mg Tincture-Batch TGM9003171

Batch ID:	TGM9003171	Test ID:	5386259.0041
Reported:	10-Oct-2019	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.02	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.01	0.10	1.0
Cannabidiolic acid (CBDA)	0.02	0.00	0.0
Cannabidiol (CBD)	0.01	3.30	33.0
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.01	0.00	0.0
Cannabinolic Acid (CBNA)	0.02	0.00	0.0
Cannabinol (CBN)	0.01	0.00	0.0
Cannabigerolic acid (CBGA)	0.01	0.00	0.0
Cannabigerol (CBG)	0.01	0.05	0.5
Tetrahydrocannabivarinic Acid (THCVA)	0.01	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.01	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.02	0.00	0.0
Cannabidivarin (CBDV)	0.01	0.00	0.0
Cannabichromenic Acid (CBCA)	0.01	0.00	0.0
Cannabichromene (CBC)	0.01	0.06	0.6
Total Cannabinoids		3.51	35.10
Total Potential THC**		0.10	1.00
Total Potential CBD**		3.30	33.00

% = % (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))


NOTES:

N/A

FINAL APPROVAL


Alex Smith
 10-Oct-2019
 3:04 PM

PREPARED BY / DATE


David Green
 10-Oct-2019
 3:09 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



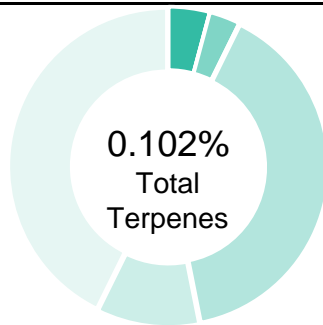
Certificate #4329.02

prepared for: RAD EXTRACTION
860 COMMERCIAL LANE
PALMER LAKE, CO 80133

900mg Tincture-Batch TGM9003171

Batch ID:	TGM9003171	Test ID:	2662061.0031
Reported:	9-Dec-2019	Method:	TM10
Type:	Concentrate		
Test:	Terpenes		

TERPENE PROFILE



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	0.003%
Linalool	0.000%
beta-Caryophyllene	0.038%
alpha-Humulene	0.010%
(-)-alpha-Bisabolol	0.041%

Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.041	0.41
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.038	0.38
(-)-Caryophyllene Oxide	0.000	0
p-Cymene	0.000	0
Eucalyptol	0.006	0.06
Geraniol	0.000	0
alpha-Humulene	0.010	0.1
(-)-Isopulegol	0.000	0
d-Limonene	0.003	0.03
Linalool	0.000	0
beta-Myrcene	0.004	0.04
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
	0.102%	1.02

NOTES:

0

FINAL APPROVAL



Daniel Weidensaul
9-Dec-2019
1:47 PM



David Green
9-Dec-2019
2:13 PM

PREPARED BY / DATE

APPROVED BY / DATE

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900mg Tincture-Batch TGM9003171

Batch ID:	TGM9003171	Test ID:	1892194.0020
Reported:	4-Dec-2019	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		


PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	56 - 2613	ND*	Malathion	56 - 2613	ND*
Acetamiprid	56 - 2613	ND*	Metalaxyl	339 - 2613	ND*
Avermectin	339 - 2613	ND*	Methiocarb	56 - 2613	ND*
Azoxystrobin	56 - 2613	ND*	Methomyl	56 - 2613	ND*
Bifenazate	56 - 2613	ND*	MGK 264 1	56 - 2613	ND*
Boscalid	339 - 2613	ND*	MGK 264 2	339 - 2613	ND*
Carbaryl	56 - 2613	ND*	Myclobutanil	339 - 2613	ND*
Carbofuran	56 - 2613	ND*	Naled	339 - 2613	ND*
Chlorantraniliprole	56 - 2613	ND*	Oxamyl	56 - 2613	ND*
Chlorpyrifos	339 - 2613	ND*	Paclobutrazol	56 - 2613	ND*
Clofentezine	56 - 2613	ND*	Permethrin	339 - 2613	ND*
Diazinon	56 - 2613	ND*	Phosmet	56 - 2613	ND*
Dichlorvos	339 - 2613	ND*	Prophos	339 - 2613	ND*
Dimethoate	56 - 2613	ND*	Propoxur	339 - 2613	ND*
E-Fenpyroximate	339 - 2613	ND*	Pyridaben	339 - 2613	ND*
Etofenprox	339 - 2613	ND*	Spinosad A	56 - 2613	ND*
Etoxazole	339 - 2613	ND*	Spinosad D	339 - 2613	ND*
Fenoxycarb	56 - 2613	ND*	Spiromesifen	56 - 2613	ND*
Fipronil	339 - 2613	ND*	Spirotetramat	339 - 2613	ND*
Flonicamid	56 - 2613	ND*	Spiroxamine 1	56 - 2613	ND*
Fludioxonil	339 - 2613	ND*	Spiroxamine 2	56 - 2613	ND*
Hexythiazox	339 - 2613	ND*	Tebuconazole	56 - 2613	ND*
Imazalil	339 - 2613	ND*	Thiacloprid	56 - 2613	ND*
Imidacloprid	56 - 2613	ND*	Thiamethoxam	56 - 2613	ND*
Kresoxim-methyl	56 - 2613	ND*	Trifloxystrobin	339 - 2613	ND*

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

N/A

FINAL APPROVAL


Sam Smith
 4-Dec-2019
 6:32 AM

PREPARED BY / DATE


David Green
 4-Dec-2019
 8:47 AM

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.

900mg Tincture-Batch TGM9003171

Batch ID:	TGM9003171	Test ID:	8825391.020
Reported:	30-Nov-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



Robert Belfon
30-Nov-2019
6:10 PM

PREPARED BY / DATE



Mike Branvold
30-Nov-2019
8:23 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Services, LLC, in the condition it was received. Botanacor Services, 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 Services, LLC.

prepared for: RAD EXTRACTION
860 COMMERCIAL LANE
PALMER LAKE, CO 80133

900mg Tincture-Batch TGM9003171

Batch ID:	TGM9003171	Test ID:	1776426.003
Reported:	5-Dec-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


Karen Winternheimer
5-Dec-2019
2:54 PM
Greg Zimpfer
5-Dec-2019
3:53 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

prepared for: RAD EXTRACTS

860 COMMERCIAL LANE

PALMER LAKE, CO 80133


900mg Tincture-Batch TGM9003171

Batch ID:	TGM9003171	Test ID:	T000039304
Reported:	12-Dec-2019	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

 Alex Smith
12-Dec-2019
7:11 AM

PREPARED BY / DATE

 Greg Zimpfer
12-Dec-2019
8:24 AM

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.