

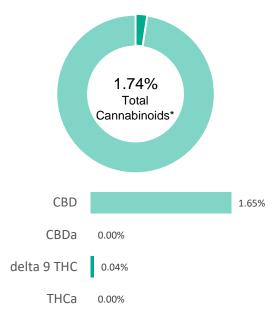
prepared for: RAD EXTRACTION
860 COMMERCIAL LANE

PALMER LAKE, CO 80133

1500mg Tincture-Batch TGM15003172

Batch ID:	TGM15003172	Test ID:	7066892.0042
Reported:	11-Oct-2019	Method:	TM14
Туре:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE



% = % (w/w) = Percent (Weight of Analyte	/ Weight of Product)
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 $^{^{\}star}$ Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

Total THC = THC + (THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877))

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	0.04	0.4
Cannabidiolic acid (CBDA)	0.02	0.00	0.0
Cannabidiol (CBD)	0.01	1.65	16.5
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	0.02	0.2
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	0.03	0.3
Total Cannabinoids		1.74	17.40
Total Potential THC**		0.04	0.40
Total Potential CBD**		1.65	16.50

NOTES:

Certificate reissued due to typographical error.

FINAL APPROVAL

alex Smith

Alex Smith 11-Oct-2019 3:43 PM

PREPARED BY / DATE

Sumh

David Green 11-Oct-2019 3:50 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

^{**} Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.



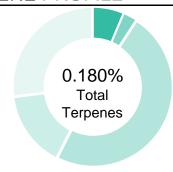
prepared for: RAD EXTRACTION

860 COMMERCIAL LANE PALMER LAKE, CO 80133

1500mg Tincture-Batch TGM15003172

Batch ID:	TGM15003172	Test ID:	2662061.0038
Reported:	9-Dec-2019	Method:	TM10
Туре:	Concentrate		
Test:	Terpenes		

TERPENE PROFILE



PREDOMINANT TERPENES

alpha-Pinene 0.000% 0.000% (-)-beta-Pinene beta-Myrcene 0.011% delta-3-Carene 0.000% alpha-Terpinene 0.000% d-Limonene 0.005% Linalool 0.000% beta-Caryophyllene 0.084% 0.027% alpha-Humulene (-)-alpha-Bisabolol 0.047%

Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.047	0.47
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.084	0.84
(-)-Caryophyllene Oxide	0.000	0
p-Cymene	0.000	0
Eucalyptol	0.006	0.06
Geraniol	0.000	0
alpha-Humulene	0.027	0.27
(-)-Isopulegol	0.000	0
d-Limonene	0.005	0.05
Linalool	0.000	0
beta-Myrcene	0.011	0.11
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
	0.180%	1.80

NOTES:

FINAL APPROVAL

Daniel Wordsmann

Daniel Weidensaul 9-Dec-2019 1:47 PM

Dunuha

David Green 9-Dec-2019 2:13 PM

PREPARED BY / DATE

APPROVED BY / DATE

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prepared for: RAD EXTRACTION 860 COMMERCIAL LANE

PALMER LAKE, CO 80133

1500mg Tincture-Batch TGM15003172

Batch ID: TGM15003172 **Test ID:** 1892194.0021

Reported: 4-Dec-2019 Method: TM17

Type: Concentrate

Test: Pesticides

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	48 - 2238	ND*
Acetamiprid	48 - 2238	ND*
Avermectin	290 - 2238	ND*
Azoxystrobin	48 - 2238	ND*
Bifenazate	48 - 2238	ND*
Boscalid	290 - 2238	ND*
Carbaryl	48 - 2238	ND*
Carbofuran	48 - 2238	ND*
Chlorantraniliprole	48 - 2238	ND*
Chlorpyrifos	290 - 2238	ND*
Clofentezine	48 - 2238	ND*
Diazinon	48 - 2238	ND*
Dichlorvos	290 - 2238	ND*
Dimethoate	48 - 2238	ND*
E-Fenpyroximate	290 - 2238	ND*
Etofenprox	290 - 2238	ND*
Etoxazole	290 - 2238	ND*
Fenoxycarb	48 - 2238	ND*
Fipronil	290 - 2238	ND*
Flonicamid	48 - 2238	ND*
Fludioxonil	290 - 2238	ND*
Hexythiazox	290 - 2238	ND*
Imazalil	290 - 2238	ND*
Imidacloprid	48 - 2238	ND*
Kresoxim-methyl	48 - 2238	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	48 - 2238	ND*
Metalaxyl	290 - 2238	ND*
Methiocarb	48 - 2238	ND*
Methomyl	48 - 2238	ND*
MGK 264 1	48 - 2238	ND*
MGK 264 2	290 - 2238	ND*
Myclobutanil	290 - 2238	ND*
Naled	290 - 2238	ND*
Oxamyl	48 - 2238	ND*
Paclobutrazol	48 - 2238	ND*
Permethrin	290 - 2238	ND*
Phosmet	48 - 2238	ND*
Prophos	290 - 2238	ND*
Propoxur	290 - 2238	ND*
Pyridaben	290 - 2238	ND*
Spinosad A	48 - 2238	ND*
Spinosad D	290 - 2238	ND*
Spiromesifen	48 - 2238	ND*
Spirotetramat	290 - 2238	ND*
Spiroxamine 1	48 - 2238	ND*
Spiroxamine 2	48 - 2238	ND*
Tebuconazole	48 - 2238	ND*
Thiacloprid	48 - 2238	ND*
Thiamethoxam	48 - 2238	ND*
Trifloxystrobin	290 - 2238	ND*

N/A

FINAL APPROVAL

Samantha Small

PREPARED BY / DATE

Sam Smith 4-Dec-2019 6:32 AM

APPROVED BY / DATE

David Green 4-Dec-2019 8:47 AM

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.

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



prepared for: RAD EXTRACTION

860 COMMERCIAL LANE PALMER LAKE, CO 80133

1500mg Tincture-Batch TGM15003172

Batch ID:TGM15003172Test ID:8825391.022Reported:30-Nov-2019Method:Edible - Test Methods: TM05, TM06Type:EdibleTest: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

Examples: 10^2 = 100 CFU

10³ = 1,000 CFU 10⁴ = 10,000 CFU 10⁵ = 100,000 CFU

NOTES:

Free from visual mold, mildew, and foreign matter

TYM: None Detected

Total Aerobic: None Detected Coliforms: None Detected

FINAL APPROVAL

T.F.

Robert Belfon 30-Nov-2019 6:10 PM

Matter

Mike Branvold 30-Nov-2019 8:23 PM

PREPARED BY / DATE APPROVED BY / DATE

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^{**} Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.



prepared for: RAD EXTRACTION

860 COMMERCIAL LANE PALMER LAKE, CO 80133

1500mg Tincture-Batch TGM15003172

Batch ID:	TGM15003172	Test ID:	1776426.002
Reported:	5-Dec-2019	Method:	TM04
Туре:	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	115
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 Karen Winte 5-Dec-2019

2:54 PM

Greg Zimpfer 5-Dec-2019 3:53 PM

PREPARED BY / DATE

APPROVED BY / DATE

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

1500mg Tincture-Batch TGM15003172

Batch ID: TGM15003172 **Test ID:** T000039314

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)

Test: Metals

Type:

Other

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

PREPARED BY / DATE

Alex Smith 12-Dec-2019 7:11 AM

APPROVED BY / DATE

Greg Zimpfer 12-Dec-2019 8:24 AM

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.