

prepared for: RAD EXTRACTION 860 COMMERCIAL LANE

PALMER LAKE, CO 80133

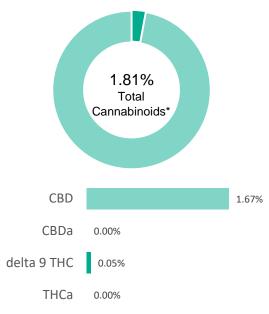
450mg Tincture Pet-Batch 3157

TAM4503157 Batch ID: Test ID: 5386259.0039 Reported: 10-Oct-2019 Method: TM14 Type: Concentrate

CANNABINOID PROFILE

Potency

Test:



% = %	(w/w) =	Percent	(Weight	of Anal	yte / W	eight of	Product)

^{*} 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	0.05	0.5
Cannabidiolic acid (CBDA)	0.03	0.00	0.0
Cannabidiol (CBD)	0.01	1.67	16.7
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)	0.02	0.07	0.7
Total Cannabinoids		1.81	18.10
Total Potential THC**		0.05	0.50
Total Potential CBD**		1.67	16.70

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





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



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860 COMMERCIAL LANE PALMER LAKE, CO 80133

mg/g

0.24

0

0.61

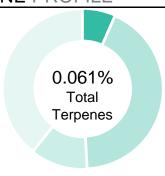
450mg Tincture Pet-Batch 3157

Batch ID:	TAM4503157	Test ID:	2662061.0033
Reported:	9-Dec-2019	Method:	TM10
Type:	Concentrate		
Test:	Terpenes		

Compound

(-)-alpha-Bisabolol

TERPENE PROFILE



Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.026	0.26
(-)-Caryophyllene Oxide	0.000	0
p-Cymene	0.000	0
Eucalyptol	0.000	0
Geraniol	0.000	0
alpha-Humulene	0.007	0.07
(-)-Isopulegol	0.000	0
d-Limonene	0.000	0
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

0.000

0.061%

%(w/w)

0.024

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	0.000%	
Linalool	0.000%	
beta-Caryophyllene		0.026%
alpha-Humulene	0.007%	
(-)-alpha-Bisabolol		0.024%

NO	TC	Ε	S	:
\cap				

Terpinolene

FINAL APPROVAL

Daniel Wordonsund

Daniel Weidensaul 9-Dec-2019 1:47 PM

Dunch

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

450mg Tincture Pet-Batch 3157

Batch ID: TAM4503157 **Test ID:** 1892194.0023

Reported: 4-Dec-2019 **Method:** TM17

Type: Concentrate

Test: Pesticides

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	50 - 2331	ND*
Acetamiprid	50 - 2331	ND*
Avermectin	302 - 2331	ND*
Azoxystrobin	50 - 2331	ND*
Bifenazate	50 - 2331	ND*
Boscalid	302 - 2331	ND*
Carbaryl	50 - 2331	ND*
Carbofuran	50 - 2331	ND*
Chlorantraniliprole	50 - 2331	ND*
Chlorpyrifos	302 - 2331	ND*
Clofentezine	50 - 2331	ND*
Diazinon	50 - 2331	ND*
Dichlorvos	302 - 2331	ND*
Dimethoate	50 - 2331	ND*
E-Fenpyroximate	302 - 2331	ND*
Etofenprox	302 - 2331	ND*
Etoxazole	302 - 2331	ND*
Fenoxycarb	50 - 2331	ND*
Fipronil	302 - 2331	ND*
Flonicamid	50 - 2331	ND*
Fludioxonil	302 - 2331	ND*
Hexythiazox	302 - 2331	ND*
Imazalil	302 - 2331	ND*
Imidacloprid	50 - 2331	ND*
Kresoxim-methyl	50 - 2331	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	50 - 2331	ND*
Metalaxyl	302 - 2331	ND*
Methiocarb	50 - 2331	ND*
Methomyl	50 - 2331	ND*
MGK 264 1	50 - 2331	ND*
MGK 264 2	302 - 2331	ND*
Myclobutanil	302 - 2331	ND*
Naled	302 - 2331	ND*
Oxamyl	50 - 2331	ND*
Paclobutrazol	50 - 2331	ND*
Permethrin	302 - 2331	ND*
Phosmet	50 - 2331	ND*
Prophos	302 - 2331	ND*
Propoxur	302 - 2331	ND*
Pyridaben	302 - 2331	ND*
Spinosad A	50 - 2331	ND*
Spinosad D	302 - 2331	ND*
Spiromesifen	50 - 2331	ND*
Spirotetramat	302 - 2331	ND*
Spiroxamine 1	50 - 2331	ND*
Spiroxamine 2	50 - 2331	ND*
Tebuconazole	50 - 2331	ND*
Thiacloprid	50 - 2331	ND*
Thiamethoxam	50 - 2331	ND*
Trifloxystrobin	302 - 2331	ND*

N/A

FINAL APPROVAL

Sawantha Smill

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

450mg Tincture Pet-Batch 3157

Batch ID:	TAM4503157	Test ID:	8825391.023
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
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

IF.

Robert Belfon 30-Nov-2019 6:10 PM

Matter

Mike Branvold 30-Nov-2019 8:23 PM

PREPARED BY / DATE

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.

^{**} 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

450mg Tincture Pet-Batch 3157

Batch ID: TAM4503157 Test ID: 1776426.004 Reported: 5-Dec-2019 Method: TM04 Concentrate Type: 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 Karen Winte 5-Dec-2019

2:54 PM

Greg Zimpfer 5-Dec-2019 3:53 PM

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







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

450mg Tincture Pet-Batch 3157

Other

Batch ID: TAM4503157 **Test ID:** T000039319

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:

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.