

CERTIFICATE OF ANALYSIS



Juniper Analytics, LLC
 1334 NE 2nd Street, Bend, OR, 97701
 541.382.3796
 ORELAP: 4101-001 / OLCC: 10035537931

Client Name:
 Contact Info:
 Sample Type: Extract
 External Batch ID: 2255
 Harvest/Prod. Date: 5/17/2019
 Sample ID: T-Free Distillate
 METRC ID: Industrial Hemp
 Juniper Batch #: 19JA1171.01_A-B Composite
 Intake Date: 5/20/2019

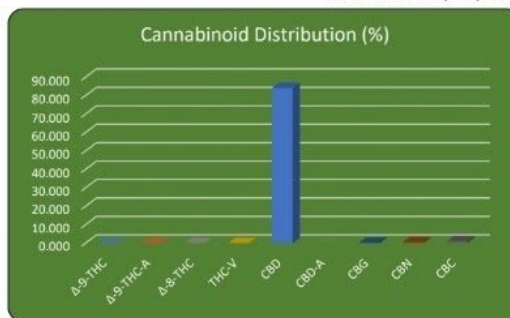


Potency Analysis (Oregon Compliance Standard OAR 333-007-0430)

ANALYSIS DATE: 5/20/2019

Instrument: HPLC/DAD
 Method: JA-Potency-Proprietary

Compound	Weight (%)	Concentration (mg/g)	LOQ (mg/g)
Δ-9-THC	<LOQ	<LOQ	1.00
Δ-9-THC-A	<LOQ	<LOQ	1.00
Δ-8-THC	<LOQ	<LOQ	1.00
THC-V	<LOQ	<LOQ	1.00
CBD	84.139	841.39	1.00
CBD-A	<LOQ	<LOQ	1.00
CBG	0.230	2.30	1.00
CBN	0.492	4.92	1.00
CBC	0.885	8.85	1.00



TOTAL THC/CBD	Weight (%)	Conc (mg/g)	RPD
%THC Total =	<LOQ	<LOQ	N/A
%THC _{Total} = (THC-A * 0.877) + Δ8THC			
%CBD Total =	84.139	841.39	N/A
%CBD _{Total} = (CBD-A * 0.877) + CBD			

Residual Solvent Analysis (Oregon Compliance Standard OAR 333-007-0410)

ANALYSIS DATE: 5/21/2019

Instrument: GC/MS Method: USP 467 - Modified

Solvent	Result (ppm)	Action Level / LOQ (ppm)
1,4-Dioxane	<LOQ	380 / 100
2-Butanol	<LOQ	5000 / 500
2-Ethoxyethanol	<LOQ	160 / 100
2-Propanol (IPA)	<LOQ	5000 / 500
Acetone	<LOQ	5000 / 500
Acetonitrile	<LOQ	410 / 100
Benzene	<LOQ	2 / 1
Cumene	<LOQ	70 / 50
Cyclohexane	<LOQ	3880 / 500
Dichloromethane	<LOQ	600 / 100
Ethyl acetate	<LOQ	5000 / 500
Ethyl ether	<LOQ	5000 / 500
Ethylene glycol	<LOQ	620 / 300
Ethylene oxide	<LOQ	50 / 10
Heptane	<LOQ	5000 / 500
Isopropyl acetate	<LOQ	5000 / 500
Methanol	<LOQ	3000 / 500
Propane	<LOQ	5000 / 500
Tetrahydrofuran	<LOQ	720 / 100
Toluene	<LOQ	890 / 100

Solvent	Result (ppm)	Action Level / LOQ (ppm)
Pentanes;	<LOQ	5000 / 500
-n-pentane	<LOQ	**
-iso-pentane	<LOQ	**
-neo-pentane	<LOQ	**
Butanes;	<LOQ	5000 / 500
-n-butane	<LOQ	**
-iso-butane	<LOQ	**
Hexanes;	<LOQ	290 / 50
-n-hexane	<LOQ	**
-2-methylpentane	<LOQ	**
-3-methylpentane	<LOQ	**
-2,2-dimethylbutane	<LOQ	**
-2,3-dimethylbutane	<LOQ	**
Xylenes;	<LOQ	2170 / 300
-1,2-dimethylbenzene	<LOQ	**
-1,3-dimethylbenzene	<LOQ	**
-1,4-dimethylbenzene	<LOQ	**
Ethyl benzene	<LOQ	**

Residual Solvents **PASS**

Tentatively Identified Compounds: None Detected

<LOQ - Less than the Limit of Quantification

**Largest hit reported to appropriate governing body; RPD only calculated on samples where the average result is above 50% of the action level.

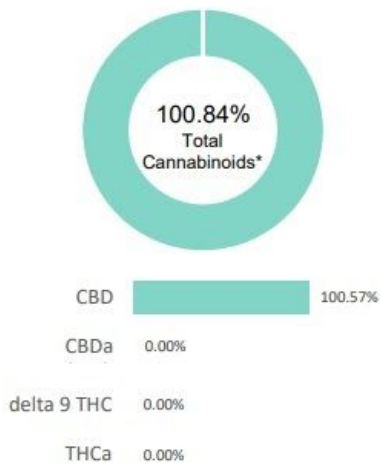
Approval

[Signature]
 QA Review

Report Date: 5/21/2019

0412 ISO

Batch ID:	N/A	Test ID:	8764005.0053
Reported:	30-May-2019	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.37	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.18	0.00	0.0
Cannabidiolic acid (CBDA)	0.32	0.00	0.0
Cannabidiol (CBD)	0.18	100.57	1005.7
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.20	0.00	0.0
Cannabinolic Acid (CBNA)	0.51	0.00	0.0
Cannabinol (CBN)	0.22	0.00	0.0
Cannabigerolic acid (CBGA)	0.32	0.00	0.0
Cannabigerol (CBG)	0.18	0.00	0.0
Tetrahydrocannabinarinic Acid (THCVA)	0.32	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.16	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.30	0.00	0.0
Cannabidivarin (CBDV)	0.16	0.27	2.7
Cannabichromenic Acid (CBCA)	0.28	0.00	0.0
Cannabichromene (CBC)	0.33	0.00	0.0
Total Cannabinoids		100.84	1008.40
Total Potential THC**		0.00	0.00
Total Potential CBD**		100.57	1005.70

 NOTES:
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.

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

FINAL APPROVAL

Daniel Weidensaul
30-May-2019
12:14 PM

PREPARED BY / DATE


Greg Zimpfer
30-May-2019
12:33 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



pH Solutions, LLC
 160 W. Huntington Dr. #200 Merced, CA 95324
 (209) 385-2142
 info@pH Lab.com, www.pH Lab.com

Distributor	0	0	0
Source	0	0	0
Analysis			
Performed For	EMERALD DRAGON		
Sample Name	EMERALD DRAGON CBD		
Batch Number	0	T & T #	100611-257-ED-1-4
Description	PET TINCTURE 300MG		

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Cannabinoid Profile					
Cannabinoid	LOD	LOQ	WYS	mg/g	mg/U
Δ^9 -THC Total			ND	ND	ND
CBD Total			0.98	9.77	282.18
CBG Total			ND	ND	ND
Δ^8 -THC	0.05	0.17	ND	ND	ND
Δ^7 -THCA	0.01	0.01	ND	ND	ND
CBD	0.07	0.25	0.98	9.77	282.18
CBDA	0.05	0.10	ND	ND	ND
CBG	0.04	0.15	ND	ND	ND
CBGA	0.07	0.26	ND	ND	ND
CBN	0.10	0.60	ND	ND	ND
CBC	0.15	0.50	0.04	0.38	11.33
JB-THC	0.08	0.27	ND	ND	ND
Cannabinoids	Pass				

Date Completed: 6/11/2018

Microbial Impurities		
Contaminant	Action Level (1/g)	Pass/Fail
E. coli (STEC)	LLOD	NT
Salmonella spp.	LLOD	NT
S. Typhimurium, npt1	LLOD	NT
Staph. & streptoc.		

Date Completed:

Moisture Content and Water Activity			
Analysis	Action Level	Amount Found	Pass/Fail
Moisture Content	11.00%		NT
Water Activity	0.65 A_w		NT

Date Completed:

Foreign Material Analysis	
Pass or Fail:	PASS

Date Completed:

Reckley

Certified by Lab Director: Dr. Raquel Kotevjan
 Cannabinoids: UHPLC, FID, SOP 6-3, 38 CDR 9/12/16
 Microbial: qPCR, SOP 6-10, 18 CDR 9/12/16 Foreign Material: SOP 2-10, 26 CDR 9/12/16
 16 CDR and 18C, Molecular Analysis, Reckley, SOP 6-27 9/17/17



Distributor	0	0	0
Source	0	0	0
Analysis	EMERALD DRAGON		
Performed For	BALM		
Batch Number	0	T & T #	190611-257-ED-1-5
Description	750MG		

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Cannabinoid Profile					
Cannabinoids	LOD	LOQ	Wt%	mg/g	mg/U
Δ^9 -THC Total			ND	ND	ND
CBD Total			6.83	68.28	2867.73
CBG Total			ND	ND	ND
Δ^9 -THC	0.05	0.17	ND	ND	ND
Δ^9 -THCA	0.01	0.01	ND	ND	ND
CBD	0.07	0.25	6.83	68.28	2867.73
CBDA	0.06	0.20	ND	ND	ND
CBG	0.04	0.15	ND	ND	ND
CBGA	0.07	0.26	ND	ND	ND
CBN	0.10	0.60	ND	ND	ND
CBC	0.15	0.50	0.09	0.86	35.98
Δ^8 -THC	0.08	0.27	ND	ND	ND
Cannabinoids	Pass				

Date Completed: 4/11/2018

Microbial Impurities		
Contaminant	Action Level (cfu/g)	Pass/Fail
<i>E. coli</i> (STEC)	LLDD	NT
<i>Salmonella</i> spp.	LLDD	NT
<i>A. fumigatus</i> , <i>niger</i> , <i>flavus</i> , & <i>terreus</i>	LLDD	NT

Date Completed:

Moisture Content and Water Activity			
Analysis	Action Level	Amount Present	Pass/Fail
Moisture Content	13.00%		NT
Water Activity	0.65 A_w		NT

Date Completed:

Foreign Material Analysis	
Pass or Fail:	PASS
	PASS

Date Completed:

Reckedy

Certified by Lab Director: Dr. Raquel Kaleblian
 Cannabinoids: UNPC, FDA, SOP 6.0, 16-C09 55724
 Microbial: qPCR, SOP 6.05, 16 CFR 517.00 Foreign Material: SOP 3.02 16-C08 55722
 %H₂O and Wx: Moisture Balance, Astromac, SOP 6.07 55717



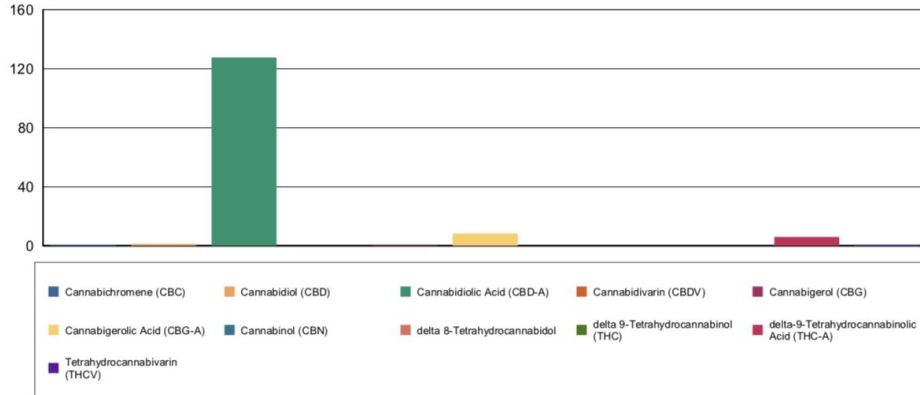
Cannabinoid Profile

Extraction Technician: DF
Analytical Chemist: CB

Extraction Date(s)	Analysis Date(s)
10/17/2019	10/18/2019

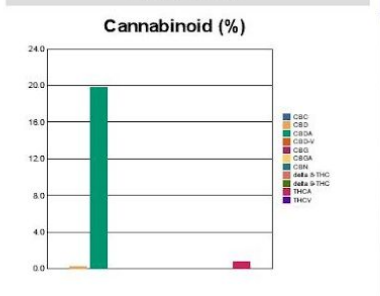
Cannabinoids (HPLC)		Results	
	LOD (mg/g)	%	mg/g
Cannabidiol (CBD)	<0.080		
Cannabidiolic Acid (CBD-A)		12.76	127.6
Cannabigerolic Acid (CBG-A)		0.84	8.4
Cannabigerol (CBG)		0.06	0.6
Cannabidiol (CBD)		0.13	1.3
Tetrahydrocannabivarin (THCV)		0.03	0.3
Cannabinol (CBN)	<0.080		
delta 9-Tetrahydrocannabinol (THC)	<0.080		
delta 8-Tetrahydrocannabinol	<0.080		
Cannabichromene (CBC)		0.08	0.8
delta-9-Tetrahydrocannabinolic Acid (THC-A)		0.60	6
Cannabinoids Total		%	mg/g
Max Active THC		0.53	5.26
Max Active CBD		11.33	113.30
T.Active Cannabinoids		0.27	2.65
Total Cannabinoids		14.50	145.00
Ratios			
21.49:1 CBD to THC		0.05:1 THC to CBD	

Cannabinoid (mg/g)



desert valley TESTING

Sample Information			RS (GCMS-MS)	ppm	RL	Terpenes (HPLC)	%	mg/g
Sample Identification	Purple Panties		Compound			Compound		
Laboratory Number	1911017-06		Acetone	NT	NT	alpha-Bisabolol	NT	NT
Batch Number	IHF103119PP		Acetonitrile	NT	NT	(-)-Borneol and (+)-Borneol	NT	NT
Matrix	Flower - Cured		Benzene	NT	NT	Camphene	NT	NT
Cannabinoid (HPLC)			n-Butane	NT	NT	Camphor	NT	NT
Compound	%	mg/g	Carbon Tetrachloride	NT	NT	beta-Caryophyllene	NT	NT
THCA	0.73	7.3	Chloroform	NT	NT	trans-Caryophyllene	NT	NT
delta 9-THC	ND	ND	1,2-Dichloroethane	NT	NT	Caryophyllene Oxide	NT	NT
delta 8-THC	ND	ND	Ethanol	NT	NT	alpha-Cedrene	NT	NT
CBGA	ND	ND	Ethyl acetate	NT	NT	Cedrol	NT	NT
THCV	ND	ND	Ethylene oxide	NT	NT	Endo-fenchyl Alcohol	NT	NT
CBDA	19.77	197.7	n-Heptane	NT	NT	Eucalyptol	NT	NT
CBD	0.16	1.6	n-Hexane	NT	NT	Fenchone	NT	NT
CBD-V	ND	ND	iso-Butane	NT	NT	Geraniol	NT	NT
CBN	ND	ND	iso-Pentane	NT	NT	Geranyl acetate	NT	NT
CBG	ND	ND	Methylene Chloride	NT	NT	Guaiol	NT	NT
CBC	ND	ND	n-Pentane	NT	NT	Hexahydrothymol	NT	NT
Cannabinoids Total			Propane	NT	NT	alpha-Humulene	NT	NT
Max Active THC	0.64	6.38	2-Propanol (IPA)	NT	NT	Isoborneol	NT	NT
Max Active CBD	17.46	174.61	Tetrahydrofuran	NT	NT	Isopulegol	NT	NT
T Active Cannabinoids	0.16	1.61	Toluene	NT	NT	Limonene	NT	NT
Total Cannabinoids	20.70	207.00	Trichloroethene	NT	NT	Linalol	NT	NT
Max Active Ratios			o-xylene	NT	NT	p-Mentha-1,5-diene	NT	NT
27.38 : 1 CBD to THC			Xylenes (m,p)	NT	NT	beta-Myrcene	NT	NT
0.04 : 1 THC to CBD						trans-Nerolidol	NT	NT



alpha-Bisabolol	NT	NT
(-)-Borneol and (+)-Borneol	NT	NT
Camphene	NT	NT
Camphor	NT	NT
beta-Caryophyllene	NT	NT
trans-Caryophyllene	NT	NT
Caryophyllene Oxide	NT	NT
alpha-Cedrene	NT	NT
Cedrol	NT	NT
Endo-fenchyl Alcohol	NT	NT
Eucalyptol	NT	NT
Fenchone	NT	NT
Geraniol	NT	NT
Geranyl acetate	NT	NT
Guaiol	NT	NT
Hexahydrothymol	NT	NT
alpha-Humulene	NT	NT
Isoborneol	NT	NT
Isopulegol	NT	NT
Limonene	NT	NT
Linalol	NT	NT
p-Mentha-1,5-diene	NT	NT
beta-Myrcene	NT	NT
trans-Nerolidol	NT	NT
Ocimene Isomer 1	NT	NT
alpha-Pinene	NT	NT
beta-Pinene	NT	NT
Pulegone	NT	NT
Sabinene	NT	NT
Sabinene Hydrate	NT	NT
gamma-Terpinene	NT	NT
alpha-Terpinene	NT	NT
alpha-Terpineol	NT	NT
3-Carene	NT	NT
Ocimene Isomer 2	NT	NT
gamma-Terpineol	NT	NT
Terpinolene	NT	NT
Valencene	NT	NT
Nerol	NT	NT
cis-Nerolidol	NT	NT
Total Terpenes	NT	NT

Metals	ppm	RL
Compound		
Arsenic	NT	NT
Cadmium	NT	NT
Mercury	NT	NT
Lead	NT	NT
Percent Moisture		
NT %		
Water Activity		
NT		

RL = Reporting Limit
 NA = Not Applicable
 NT = Not Tested
 ND = Non Detected



The Good Lab

Certificate of Analysis

2501 W. Colorado Ave. #204 Colorado
 Springs, Colorado
 (720) 245-8323
 GoodLabColorado@gmail.com
 www.GoodLabColorado.com

Sample ID	1901900	Sample Name	Purple Russian GH		
Sample Type	Flower	Date Received	9/17/2019	Date Completed	9/21/2019

Total THC %	Total CBD %	Total Cannabinoids %	Δ9THC %	Potential CBD %
0.44	9.65	10.23	0.06	8.31

Potency Profile Percentage	
CBDV	0.24
CBDA	8.97
CBGA	0.08
CBG	0.00
THCV	0.00
CBD	0.45
CBN	0.00
Δ9THC	0.06
CBC	0.06
THCA	0.38
TOTAL Cannabinoids	10.23
Total THC = Δ9THC + THCA + THCV Total CBD = CBD + CBDA + CBDV Potential Δ9THC = Δ9THC + (THCA x .877) Potential CBD = CBD + (CBDA x .877) LOQ = Limit of Quantitation TR = Trace ND = Not Detected	This product has been analyzed by The Good Lab using valid testing methodologies developed by Colorado state certified cannabis laboratories.

Terpene Profile Percentage			
Alpha-Pinene	NOT TESTED	Terpinolene	NOT TESTED
Camphene	NOT TESTED	Linalool	NOT TESTED
Beta-Pinene	NOT TESTED	(-)-Isopulegol	NOT TESTED
Beta-Myrcene	NOT TESTED	Geraniol	NOT TESTED
Delta-3-Carene	NOT TESTED	Beta-Caryophyllene	NOT TESTED
Alpha-Terpinene	NOT TESTED	Alpha-Humulene	NOT TESTED
Limonene	NOT TESTED	cis-Nerolidol	NOT TESTED
Alpha-Ocimene	NOT TESTED	trans-Nerolidol	NOT TESTED
Eucalyptol	NOT TESTED	(-)-Guaial	NOT TESTED
Beta-Ocimene	NOT TESTED	(-)-Caryophyllene Oxide	NOT TESTED
Gamma-Terpinene	NOT TESTED	Alpha-Bisabolol	NOT TESTED
		TOTAL Terpenes	NOT TESTED
Heavy Metals	NOT TESTED		
Residual Solvents	NOT TESTED		
Mycotoxins	NOT TESTED		
Pesticides	NOT TESTED		

FINAL APPROVAL	
Analysis: Gregory P. Duran, Lab Owner 	Quality Control: M. Teri Robnett, Lab Manager 

Thank you for choosing **The Good Lab** for your analytical needs. This report outlines the results of your product analysis. If you have any further questions regarding your product, feel free to contact us for a consultation at (720) 245-8323 or goodlabcolorado@gmail.com.

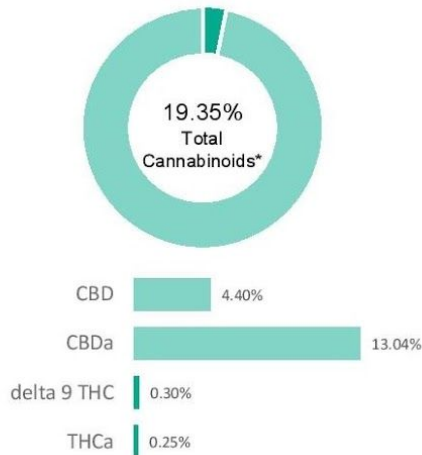
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desert valley TESTING

Sample Information			RS (GCMS-MS)	ppm	RL	Terpenes (HPLC)	%	mg/g																																																																					
Sample Identification			Compound			Compound																																																																							
Sour Diesel			Acetone	NT	NT	alpha-Bisabolol	NT	NT																																																																					
Laboratory Number	1911017-04		Acetonitrile	NT	NT	(-)-Borneol and (+)-Borneol	NT	NT																																																																					
Batch Number	IHF103119SD		Benzene	NT	NT	Camphene	NT	NT																																																																					
Matrix	Flower - Cured		n-Butane	NT	NT	Camphor	NT	NT																																																																					
Cannabinoid (HPLC)			Carbon Tetrachloride	NT	NT	beta-Caryophyllene	NT	NT																																																																					
Compound	%	mg/g	Chloroform	NT	NT	trans-Caryophyllene	NT	NT																																																																					
THCA	0.57	5.7	1,2-Dichloroethane	NT	NT	Caryophyllene Oxide	NT	NT																																																																					
delta 9-THC	ND	ND	Ethanol	NT	NT	alpha-Cedrene	NT	NT																																																																					
delta 8-THC	ND	ND	Ethyl acetate	NT	NT	Cedrol	NT	NT																																																																					
CBGA	ND	ND	Ethylene oxide	NT	NT	Endo-fenchyl Alcohol	NT	NT																																																																					
THCV	ND	ND	n-Heptane	NT	NT	Eucalyptol	NT	NT																																																																					
CBDA	15.07	150.7	n-Hexane	NT	NT	Fenchone	NT	NT																																																																					
CBD	0.26	2.6	iso-Butane	NT	NT	Geraniol	NT	NT																																																																					
CBD-V	ND	ND	iso-Pentane	NT	NT	Geranyl acetate	NT	NT																																																																					
CBN	ND	ND	Methylene Chloride	NT	NT	Guaiol	NT	NT																																																																					
CBG	ND	ND	n-Pentane	NT	NT	Hexahydrothymol	NT	NT																																																																					
CBC	ND	ND	Propane	NT	NT	alpha-Humulene	NT	NT																																																																					
Cannabinoids Total			2-Propanol (IPA)	NT	NT	Isoborneol	NT	NT																																																																					
Max Active THC	0.50	5.02	Tetrahydrofuran	NT	NT	Isopulegol	NT	NT																																																																					
Max Active CBD	13.47	134.65	Toluene	NT	NT	Limonene	NT	NT																																																																					
T Active Cannabinoids	0.27	2.65	Trichloroethene	NT	NT	Linalol	NT	NT																																																																					
Total Cannabinoids	15.90	159.00	o-xylene	NT	NT	p-Mentha-1,5-diene	NT	NT																																																																					
Max Active Ratios			Xylenes (m,p)	NT	NT	beta-Myrcene	NT	NT																																																																					
26.80 : 1 CBD to THC						trans-Nerolidol	NT	NT																																																																					
0.04 : 1 THC to CBD						Ocimene Isomer 1	NT	NT																																																																					
Cannabinoid (%)			Sample Image																																																																										
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<p>RL = Reporting Limit NA = Not Applicable NT = Not Tested ND = Non Detected</p>																																																																													

Suver Hazer

Batch ID:	SSR062419	Test ID:	8883894.0012
Reported:	26-Jul-2019	Method:	TM14
Type:	Plant		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.04	0.25	2.5
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.02	0.30	3.0
Cannabidiolic acid (CBDA)	0.05	13.04	130.4
Cannabidiol (CBD)	0.03	4.40	44.0
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.02	0.00	0.0
Cannabinolic Acid (CBNA)	0.05	0.00	0.0
Cannabinol (CBN)	0.02	0.00	0.0
Cannabigerolic acid (CBGA)	0.03	0.18	1.8
Cannabigerol (CBG)	0.02	0.06	0.6
Tetrahydrocannabivarinic Acid (THCVA)	0.03	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.02	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.04	0.05	0.5
Cannabidivarin (CBDV)	0.02	0.00	0.0
Cannabichromenic Acid (CBCA)	0.03	0.78	7.8
Cannabichromene (CBC)	0.04	0.29	2.9
Total Cannabinoids		19.35	193.50
Total Potential THC**		0.52	5.19
Total Potential CBD**		15.84	158.36

 NOTES:
 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.

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

FINAL APPROVAL


 Sam Smith
 26-Jul-2019
 2:13 PM

PREPARED BY / DATE


 Greg Zimpfer
 26-Jul-2019
 2:34 PM

APPROVED BY / DATE

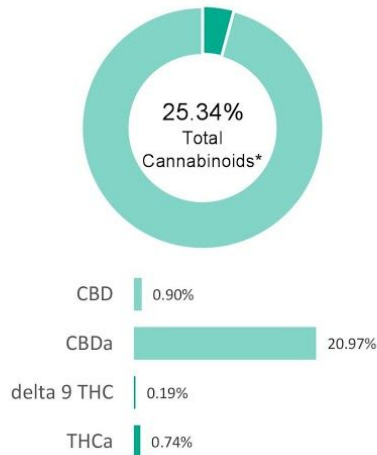
Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods.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

LIFTER

Batch ID:	N/A	Test ID:	1928312.0019
Reported:	29-May-2019	Method:	TM14
Type:	Plant		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.10	0.74	7.4
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.05	0.19	1.9
Cannabidiolic acid (CBDA)	0.08	20.97	209.7
Cannabidiol (CBD)	0.04	0.90	9.0
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.06	0.00	0.0
Cannabinolic Acid (CBNA)	0.14	0.00	0.0
Cannabinol (CBN)	0.06	0.00	0.0
Cannabigerolic acid (CBGA)	0.09	0.70	7.0
Cannabigerol (CBG)	0.05	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.09	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.05	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.07	0.13	1.3
Cannabidivarin (CBDV)	0.04	0.00	0.0
Cannabichromenic Acid (CBCA)	0.08	1.71	17.1
Cannabichromene (CBC)	0.09	0.00	0.0
Total Cannabinoids		25.34	253.40
Total Potential THC**		0.84	8.39
Total Potential CBD**		19.29	192.91

NOTES:

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.

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

FINAL APPROVAL

Alex Smith
 Alex Smith
 29-May-2019
 10:09 AM

PREPARED BY / DATE

Greg Zimpfer
 Greg Zimpfer
 29-May-2019
 10:51 AM

APPROVED BY / DATE

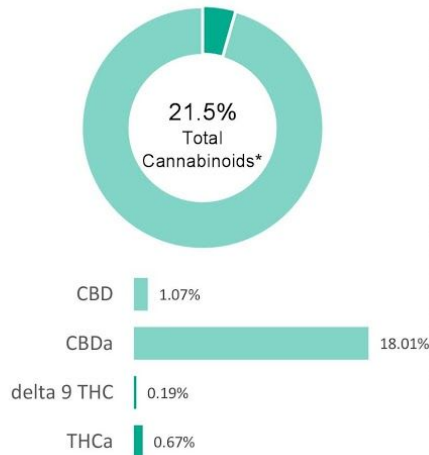
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Certificate #4329.02

Wife 3

Batch ID:	W06119	Test ID:	5625349.004
Reported:	18-Jun-2019	Method:	TM14
Type:	Plant		
Test:	Potency		

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.06	0.67	6.7
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.03	0.19	1.9
Cannabidiolic acid (CBDA)	0.04	18.01	180.1
Cannabidiol (CBD)	0.02	1.07	10.7
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.03	0.00	0.0
Cannabinolic Acid (CBNA)	0.08	0.00	0.0
Cannabinol (CBN)	0.03	0.00	0.0
Cannabigerolic acid (CBGA)	0.05	0.36	3.6
Cannabigerol (CBG)	0.03	0.08	0.8
Tetrahydrocannabivarinic Acid (THCVA)	0.05	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.02	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.04	0.04	0.4
Cannabidivarin (CBDV)	0.02	0.00	0.0
Cannabichromenic Acid (CBCA)	0.04	0.99	9.9
Cannabichromene (CBC)	0.05	0.09	0.9
Total Cannabinoids		21.50	215.00
Total Potential THC**		0.78	7.78
Total Potential CBD**		16.86	168.65

 NOTES:
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.

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

FINAL APPROVAL


 Sam Smith
 18-Jun-2019
 1:31 PM

PREPARED BY / DATE


 Greg Zimpfer
 18-Jun-2019
 1:48 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



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