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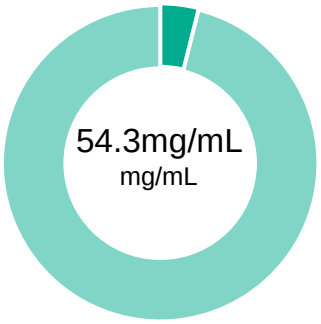
CERTIFICATE OF ANALYSIS

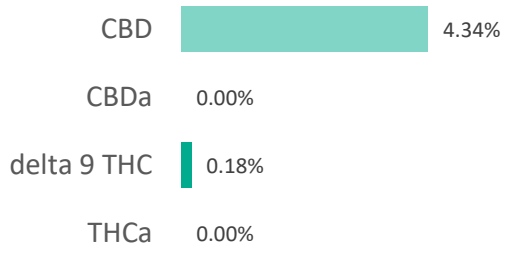
prepared for: HEMPLUCID
4844 N 300 W
PROVO, UT 84604

HL-WS1500 LOT: 2000058

Batch ID:	PJ-12363	**Test ID:**	5324461.0068
Reported:	17-Jun-2020	**Method:**	TM14
Type:	Solution		
Test:	Potency		

CANNABINOID PROFILE





Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	1.69	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.84	2.20	1.8
Cannabidiolic acid (CBDA)	0.80	ND	ND
Cannabidiol (CBD)	0.45	54.30	43.4
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.92	ND	ND
Cannabinolic Acid (CBNA)	2.32	ND	ND
Cannabinol (CBN)	1.03	ND	ND
Cannabigerolic acid (CBGA)	1.48	ND	ND
Cannabigerol (CBG)	0.83	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	1.45	ND	ND
Tetrahydrocannabivarin (THCV)	0.75	ND	ND
Cannabidivarinic Acid (CBDVA)	0.74	ND	ND
Cannabidivarin (CBDV)	0.41	ND	ND
Cannabichromenic Acid (CBCA)	1.27	ND	ND
Cannabichromene (CBC)	1.53	ND	ND
Total Cannabinoids		**56.50**	**45.19**
Total Potential THC**		2.20	1.77
Total Potential CBD**		54.30	43.42

% = % (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))

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

NOTES:

Density = 1.25g/mL

N/A

FINAL APPROVAL

Michelle Gagnon
17-Jun-2020
2:09 PM

PREPARED BY / DATE

Greg Zimpfer
17-Jun-2020
8:19 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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CTLA
Contract TESTING Laboratories
OF AMERICA

Certificate of Analysis

Sample Information

CTLA ID: 18174
Date Received: 6/12/2020
Sample Name: HL-WS1500 60ml Syringe
Lot Number: 2000058
Customer: HempLucid

Analysis	Method	MDL	Specification	Result	Units
Complete Micro					
Total Plate Count	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	BAM CH.4	10	Report	<10	cfu/g
Escherichia coli	USP <2022>		Report	Negative	
Salmonella	USP <2022>		Report	Negative	
Staphylococcus aureus	USP <2022>		Report	Negative	
Yeast & Mold	USP <2021>	100	Report	<100	cfu/g
Heavy Metals					
Arsenic	USP <2232>	.001	Report	<0.001	ppm
Cadmium	USP <2232>	.001	Report	0.001	ppm
Lead	USP <2232>	.001	Report	0.017	ppm
Mercury	USP <2232>	.001	Report	0.002	ppm

6/16/2020
DATE

Quality Manager

Specifications provided by the Customer. Results with an asterisk (*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDL = Method Detection Limit.

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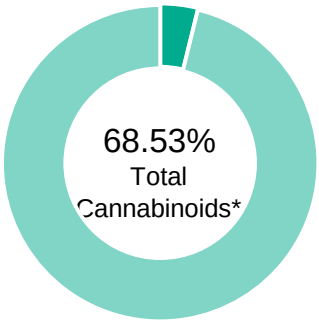
CERTIFICATE OF ANALYSIS

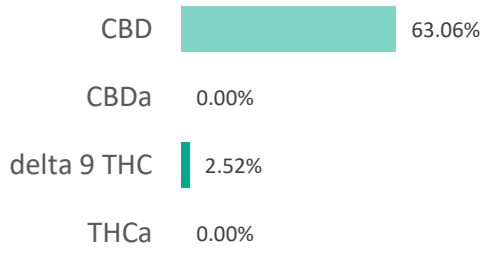
prepared for: HEMPLUCID
4844 N 300 W
PROVO, UT 84604

CBD Oil Concentrate

Batch ID:	CO2-YP5-14220-BULK18	**Test ID:**	5452589.001
Reported:	9-Jun-2020	**Method:**	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE





Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.18	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.09	2.52	25.2
Cannabidiolic acid (CBDA)	0.24	ND	ND
Cannabidiol (CBD)	0.13	63.06	630.6
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.10	0.14	1.4
Cannabinolic Acid (CBNA)	0.24	ND	ND
Cannabinol (CBN)	0.11	0.23	2.3
Cannabigerolic acid (CBGA)	0.15	ND	ND
Cannabigerol (CBG)	0.09	0.70	7.0
Tetrahydrocannabivarinic Acid (THCVA)	0.15	ND	ND
Tetrahydrocannabivarin (THCV)	0.08	ND	ND
Cannabidivarinic Acid (CBDVA)	0.22	ND	ND
Cannabidivarin (CBDV)	0.12	0.12	1.2
Cannabichromenic Acid (CBCA)	0.13	ND	ND
Cannabichromene (CBC)	0.16	1.76	17.6
Total Cannabinoids		**68.53**	**685.30**
Total Potential THC**		2.52	25.20
Total Potential CBD**		63.06	630.60

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))

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

FINAL APPROVAL

Tyler Wiese
9-Jun-2020
6:41 PM

PREPARED BY / DATE

Ben Minton
9-Jun-2020
7:03 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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CERTIFICATE OF ANALYSIS

prepared for: HEMPLUCID
4844 N 300 W
PROVO, UT 84604

CBD Oil Concentrate

Batch ID:	CO2-YP5-14220-BULK18	**Test ID:**	T000079889
Reported:	14-Jun-2020	**Method:**	Concentrate - Test Methods: TM05, TM06
Type:	Concentrate		
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

Robert Belfon
13-Jun-2020
12:16 PM
PREPARED BY / DATE

Mike Branvold
14-Jun-2020
7:55 PM
APPROVED BY / DATE

Certificate #4329.03

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CERTIFICATE OF ANALYSIS

prepared for: HEMPLUCID
4844 N 300 W
PROVO, UT 84604

CBD Oil Concentrate

Batch ID:	CO2-YP5-14220-BULK18	**Test ID:**	T000079892
Reported:	12-Jun-2020	**Method:**	TM19
Type:	Concentrate		
Test:	Metals		

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.087 - 8.75	ND
Cadmium	0.089 - 8.90	ND
Mercury	0.078 - 7.80	ND
Lead	0.089 - 8.87	ND

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

FINAL APPROVAL

Morgan Ingraham
12-Jun-2020
12:43 PM

PREPARED BY / DATE

Ben Minton
12-Jun-2020
4:35 PM

APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

prepared for: HEMPLUCID
4844 N 300 W
PROVO, UT 84604

CBD Oil Concentrate

Batch ID:	CO2-YP5-14220-BULK18	**Test ID:**	T000079888
Reported:	11-Jun-2020	**Method:**	TM04
Type:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	103 - 2053	*ND
Butanes (Isobutane, n-Butane)	174 - 3475	*ND
Methanol	68 - 1365	*ND
Pentane	98 - 1960	*ND
Ethanol	107 - 2143	*ND
Acetone	106 - 2123	*ND
Isopropyl Alcohol	123 - 2450	*ND
Hexane	7 - 132	*ND
Ethyl Acetate	110 - 2198	*ND
Benzene	0.2 - 4.3	*ND
Heptanes	100 - 1998	*ND
Toluene	19 - 390	*ND
Xylenes (m,p,o-Xylenes)	141 - 2825	*ND

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

NOTES:
N/A

FINAL APPROVAL

Ryan Weems
11-Jun-2020
2:59 PM
PREPARED BY / DATE

Ben Minton
11-Jun-2020
6:01 PM
APPROVED BY / DATE

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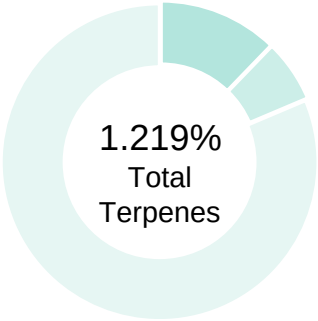
CERTIFICATE OF ANALYSIS

prepared for: HEMPLUCID
4844 N 300 W
PROVO, UT 84604

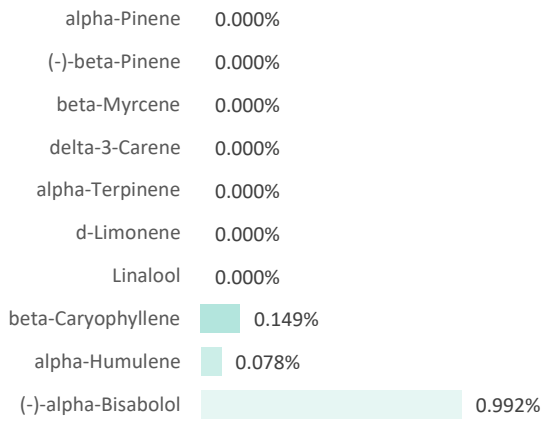
CBD Oil Concentrate

Batch ID:	CO2-YP5-14220-BULK18	**Test ID:**	4433744.0011
Reported:	18-Jun-2020	**Method:**	TM10
Type:	Concentrate		
Test:	Terpenes		

TERPENE PROFILE



PREDOMINANT TERPENES



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.992	9.92
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.149	1.49
(-)-Caryophyllene Oxide	0.000	0
p-Cymene	0.000	0
Eucalyptol	0.000	0
Geraniol	0.000	0
alpha-Humulene	0.078	0.78
(-)-Isopulegol	0.000	0
d-Limonene	0.000	0
Linalool	0.000	0
beta-Myrcene	0.000	0
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
	1.219%	**12.19**

NOTES:
0

FINAL APPROVAL

Ryan Weems
11-Jun-2020
5:36 PM

PREPARED BY / DATE

Ben Minton
18-Jun-2020
7:57 AM

APPROVED BY / DATE

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