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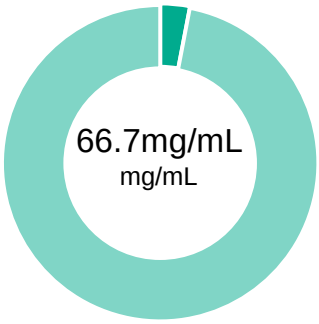
CERTIFICATE OF ANALYSIS

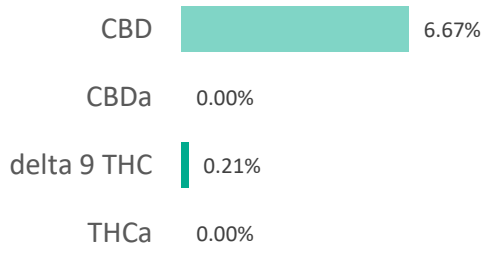
prepared for: HEMPLUCID
4844 N 300 W
PROVO, UT 84604

HL-MCT2000 Lot#2000064

Batch ID:	PJ-12369	**Test ID:**	7971204.0030
Reported:	21-May-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)	0.70	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.35	2.10	2.1
Cannabidiolic acid (CBDA)	0.88	ND	ND
Cannabidiol (CBD)	0.49	66.70	66.7
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.38	ND	ND
Cannabinolic Acid (CBNA)	0.95	ND	ND
Cannabinol (CBN)	0.42	ND	ND
Cannabigerolic acid (CBGA)	0.61	ND	ND
Cannabigerol (CBG)	0.34	0.80	0.8
Tetrahydrocannabivarinic Acid (THCVA)	0.60	ND	ND
Tetrahydrocannabivarin (THCV)	0.31	ND	ND
Cannabidivarinic Acid (CBDVA)	0.82	ND	ND
Cannabidivarin (CBDV)	0.45	ND	ND
Cannabichromenic Acid (CBCA)	0.52	ND	ND
Cannabichromene (CBC)	0.63	1.60	1.6
Total Cannabinoids		**71.20**	**71.10**
Total Potential THC**		2.10	2.07
Total Potential CBD**		66.70	66.70

% = % (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 = 1g/mL

N/A

FINAL APPROVAL

Daniel Weidensaul
21-May-2020
2:53 PM

PREPARED BY / DATE

Ben Minton
21-May-2020
4:53 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: 17337
Date Received: 5/13/2020
Sample Name: HL-MCT 2000
Lot Number: 2000064
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	0.004	ppm
Lead	USP <2232>	.001	Report	<0.001	ppm
Mercury	USP <2232>	.001	Report	<0.001	ppm

5/20/2020
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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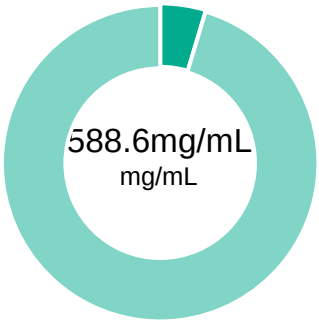
CERTIFICATE OF ANALYSIS

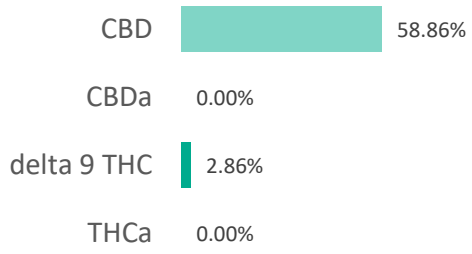
prepared for: HEMPLUCID
4844 N 300 W
PROVO, UT 84604

Organic CBD Oil

Batch ID:	O-CO2-YP5-07820-B1	**Test ID:**	6080869.002
Reported:	6-Apr-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)	2.82	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	1.41	28.60	28.6
Cannabidiolic acid (CBDA)	1.89	ND	ND
Cannabidiol (CBD)	1.06	588.60	588.6
Delta 8-Tetrahydrocannabinol (Delta 8THC)	1.54	ND	ND
Cannabinolic Acid (CBNA)	3.87	ND	ND
Cannabinol (CBN)	1.71	ND	ND
Cannabigerolic acid (CBGA)	2.46	ND	ND
Cannabigerol (CBG)	1.39	9.50	9.5
Tetrahydrocannabivarinic Acid (THCVA)	2.42	ND	ND
Tetrahydrocannabivarin (THCV)	1.26	ND	ND
Cannabidivarinic Acid (CBDVA)	1.76	ND	ND
Cannabidivarin (CBDV)	0.96	ND	ND
Cannabichromenic Acid (CBCA)	2.11	ND	ND
Cannabichromene (CBC)	2.55	19.50	19.5
Total Cannabinoids		**646.20**	**646.14**
Total Potential THC**		28.60	28.60
Total Potential CBD**		588.60	588.60

% = % (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 = 1g/mL

N/A

FINAL APPROVAL

Ryan Weems
6-Apr-2020
12:58 PM

PREPARED BY / DATE

Ben Minton
6-Apr-2020
4:02 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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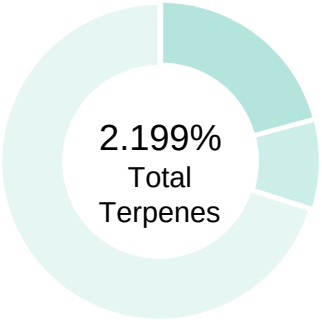
CERTIFICATE OF ANALYSIS

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

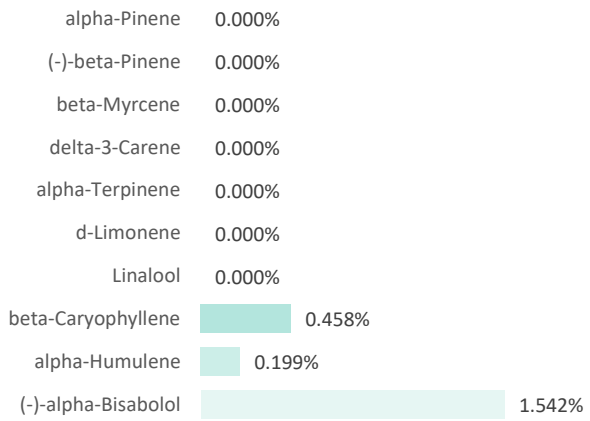
Organic CBD Oil

Batch ID:	O-CO2-YP5-07820-B1	**Test ID:**	5908109.0027
Reported:	3-Apr-2020	**Method:**	TM10
Type:	Concentrate		
Test:	Terpenes		

TERPENE PROFILE



PREDOMINANT TERPENES



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	1.542	15.42
Camphene	N/A	N/A
delta-3-Carene	0.000	0
beta-Caryophyllene	0.458	4.58
(-)-Caryophyllene Oxide	0.000	0
p-Cymene	0.000	0
Eucalyptol	0.000	0
Geraniol	0.000	0
alpha-Humulene	0.199	1.99
(-)-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
	2.199%	**21.99**

NOTES:
0

FINAL APPROVAL

Ryan Weems
3-Apr-2020
7:31 PM
PREPARED BY / DATE

Greg Zimpfer
3-Apr-2020
9:02 PM
APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

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

Organic CBD Oil

Batch ID:	O-CO2-YP5-07820-B1	**Test ID:**	T000070075
Reported:	9-Apr-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
9-Apr-2020
10:42 AM
PREPARED BY / DATE

Greg Zimpfer
9-Apr-2020
11:01 AM
APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

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

Organic CBD Oil

Batch ID:	O-CO2-YP5-07820-B1	**Test ID:**	4614057.0019
Reported:	7-Apr-2020	**Method:**	TM17
Type:	Concentrate		
Test:	Pesticides		

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	53 - 2447	ND*
Acetamiprid	53 - 2447	ND*
Abamectin	>317	ND*
Azoxystrobin	53 - 2447	ND*
Bifenazate	53 - 2447	ND*
Boscalid	53 - 2447	ND*
Carbaryl	53 - 2447	ND*
Carbofuran	53 - 2447	ND*
Chlorantraniliprole	53 - 2447	ND*
Chlorpyrifos	53 - 2447	ND*
Clofentezine	317 - 2447	ND*
Diazinon	317 - 2447	ND*
Dichlorvos	>317	ND*
Dimethoate	53 - 2447	ND*
E-Fenpyroximate	53 - 2447	ND*
Etofenprox	53 - 2447	ND*
Etoxazole	317 - 2447	ND*
Fenoxycarb	>53	ND*
Fipronil	53 - 2447	ND*
Flonicamid	53 - 2447	ND*
Fludioxonil	>317	ND*
Hexythiazox	53 - 2447	ND*
Imazalil	317 - 2447	ND*
Imidacloprid	53 - 2447	ND*
Kresoxim-methyl	53 - 2447	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	317 - 2447	ND*
Metalaxyl	53 - 2447	ND*
Methiocarb	53 - 2447	ND*
Methomyl	53 - 2447	ND*
MGK 264 1	317 - 2447	ND*
MGK 264 2	317 - 2447	ND*
Myclobutanil	53 - 2447	ND*
Naled	53 - 2447	ND*
Oxamyl	53 - 2447	ND*
Paclobutrazol	53 - 2447	ND*
Permethrin	317 - 2447	ND*
Phosmet	53 - 2447	ND*
Prophos	317 - 2447	ND*
Propoxur	53 - 2447	ND*
Pyridaben	53 - 2447	ND*
Spinosad A	53 - 2447	ND*
Spinosad D	317 - 2447	ND*
Spiromesifen	>317	ND*
Spirotetramat	>317	ND*
Spiroxamine 1	53 - 2447	ND*
Spiroxamine 2	53 - 2447	ND*
Tebuconazole	317 - 2447	ND*
Thiacloprid	53 - 2447	ND*
Thiamethoxam	53 - 2447	ND*
Trifloxystrobin	53 - 2447	ND*

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

N/A

FINAL APPROVAL

Tyler Wiese
7-Apr-2020
3:00 PM
PREPARED BY / DATE

Greg Zimpfer
7-Apr-2020
7:53 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:	O-CO2-YP5-07820-B1	**Test ID:**	T000072777
Reported:	28-Apr-2020	**Method:**	TM04
Type:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	75 - 1491	*ND
Butanes (Isobutane, n-Butane)	153 - 3068	*ND
Methanol	66 - 1317	*ND
Pentane	93 - 1851	*ND
Ethanol	100 - 1993	*ND
Acetone	106 - 2116	*ND
Isopropyl Alcohol	112 - 2239	*ND
Hexane	6 - 127	*ND
Ethyl Acetate	108 - 2165	*ND
Benzene	0.2 - 4.4	*ND
Heptanes	101 - 2019	*ND
Toluene	20 - 396	*ND
Xylenes (m,p,o-Xylenes)	145 - 2901	*ND

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

NOTES:
N/A

FINAL APPROVAL

Ryan Weems
28-Apr-2020
2:34 PM
PREPARED BY / DATE

Ben Minton
28-Apr-2020
2:51 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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