

CERTIFICATE OF QUALITY ASSURANCE

PRODUCT NAME: Full Spec Tincture (all flavors)
CONCENTRATION: 1000mg -33.3mg/ml
PRODUCT LOT NUMBER: LB-O-00025
OIL LOT NUMBER: LD-O-00045
MANUFACTURE DATE: 11/18/2020
Expiration date is 24 months under sealed conditions
DATE OF ANALYSIS: 8/7/2020
ACTIVE INGREDIENTS: Organic Phytocannabinoid-Rich Hemp Oil
INACTIVE INGREDIENTS: Organic MCT Coconut Oil, Organic Essential Oil (flavor)
ALLERGY NOTICE: Contains Tree Nuts (Coconut)



ANALYSIS RESULTS FOR FINISHED PRODUCT

ATTRIBUTE ANALYSIS

ATTRIBUTE	CRITERIA	DISPOSITION
APPEARANCE	Clear light yellow liquid	PASS
AROMA	Characteristic Hemp Oil Aroma & Essential Oil	PASS
CBD CONTENT	Label claim +/- 10%	PASS
THC CONTENT	COMPLIANT OR NON-DETECT	PASS

CANNABINOID ANALYSIS

COMPOUND	RESULT	CRITERIA
CBD	1045.30mg	1000mg
THC	0.13%	<0.3%
CBN	ND	NO CRITERIA
CBG	13.40mg	NO CRITERIA
CBDV	6.20mg	NO CRITERIA
CBC	29.90mg	NO CRITERIA
PASS		

MICROBIAL ANALYSIS

CONTAMINANT	SPECIFICATION	RESULT (CFU/g)	DISPOSITION
Ttl Aerobic Count	None Detected	None Detected	PASS
Total Coliforms	None Detected	None Detected	PASS
Total Yeast & Molds	None Detected	None Detected	PASS
E. Coli	None Detected	None Detected	PASS
Salmonella	None Detected	None Detected	PASS

RESIDUAL SOLVENT ANALYSIS

SOLVENT	SPECIFICATION	RESULT (ppm)	DISPOSITION
Propane	None Detected	None Detected	PASS
Butanes	None Detected	None Detected	PASS
Methanol	None Detected	None Detected	PASS
Pentane	None Detected	None Detected	PASS
Ethanol	None Detected	None Detected	PASS
Acentone	None Detected	None Detected	PASS
Isopropyl Alcohol	None Detected	None Detected	PASS
Hexane	None Detected	None Detected	PASS
Ethyl Acetate	None Detected	None Detected	PASS
Benzene	None Detected	None Detected	PASS
Heptanes	None Detected	None Detected	PASS
Toluene	None Detected	None Detected	PASS
Xylenes	None Detected	None Detected	PASS
PASS			

HEAVY METALS ANALYSIS

ANALYTE	SPECIFICATION	RESULT (ppm)	DISPOSITION
As, Cd, Hg, Pb	None Detected	None Detected	PASS

PESTICIDE ANALYSIS

COMPOUND	SPECIFICATION	RESULT (ppb)	DISPOSITION
ALL TESTED	None Detected	None Detected	PASS

QC Approval: Scott McWhorter
Date: 8/8/2020

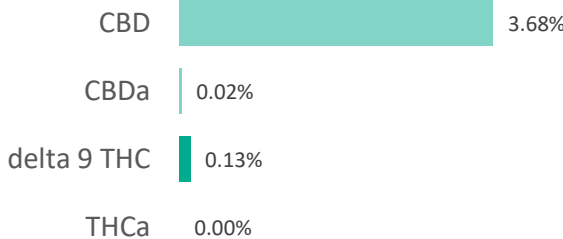
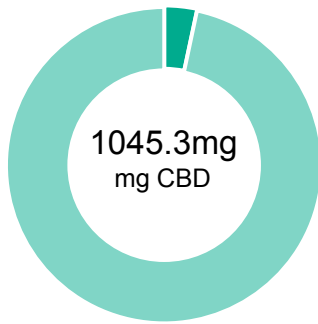




LB-O-00025-001

Batch ID:		Test ID:	2220823.0019
Reported:	22-Jul-2020	Method:	TM14
Type:	Unit		
Test:	Potency		

CANNABINOID PROFILE



Compound	LOQ (mg)	Result (mg)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	4.43	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	2.21	36.30	1.3
Cannabidiolic acid (CBDA)	6.65	6.90	0.2
Cannabidiol (CBD)	3.72	1045.30	36.8
Delta 8-Tetrahydrocannabinol (Delta 8THC)	2.42	ND	ND
Cannabinolic Acid (CBNA)	6.08	ND	ND
Cannabinol (CBN)	2.69	ND	ND
Cannabigerolic acid (CBGA)	3.87	ND	ND
Cannabigerol (CBG)	2.18	13.40	0.5
Tetrahydrocannabivarinic Acid (THCVA)	3.80	ND	ND
Tetrahydrocannabivarin (THCV)	1.98	ND	ND
Cannabidivarinic Acid (CBDVA)	6.18	ND	ND
Cannabidivarin (CBDV)	3.39	6.20	0.2
Cannabichromenic Acid (CBCA)	3.32	ND	ND
Cannabichromene (CBC)	4.00	29.90	1.1
Total Cannabinoids		1138.00	40.07
Total Potential THC**		36.30	1.28
Total Potential CBD**		1051.35	37.02

NOTES:

of Servings = 1, Sample Weight=28.4g

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

Ryan Weems
 22-Jul-2020
 1:06 PM

Greg Zimpfer
 22-Jul-2020
 2:27 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



Certificate #4329.02



LB-O-00025-003

Batch ID:	N/A	Test ID:	T000088741
Reported:	7-Aug-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
<i>E. coli</i>	None Detected
<i>Salmonella</i>	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

FINAL APPROVAL


 Mara Miller
 7-Aug-2020
 3:38 PM


 Scott Hanson
 7-Aug-2020
 6:55 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.03



LD-O-00045-001


Batch ID:	N/A	Test ID:	T000086805
Reported:	23-Jul-2020	Method:	TM19
Type:	Concentrate		
Test:	Metals		

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.078 - 7.82	ND
Cadmium	0.078 - 7.78	ND
Mercury	0.076 - 7.59	ND
Lead	0.075 - 7.54	ND

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

FINAL APPROVAL


 Ryan Weems
 23-Jul-2020
 12:32 PM

PREPARED BY / DATE


 Ben Minton
 23-Jul-2020
 2:41 PM

APPROVED BY / DATE

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LD-O-00045-001

Batch ID:		Test ID:	1377760.0013
Reported:	23-Jul-2020	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		


PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	42 - 2405	ND*	Malathion	283 - 2405	ND*
Acetamiprid	43 - 2405	ND*	Metalaxyl	40 - 2405	ND*
Abamectin	>300	NA	Methiocarb	42 - 2405	ND*
Azoxystrobin	40 - 2405	ND*	Methomyl	40 - 2405	ND*
Bifenazate	37 - 2405	ND*	MGK 264 1	167 - 2405	ND*
Boscalid	36 - 2405	ND*	MGK 264 2	106 - 2405	ND*
Carbaryl	41 - 2405	ND*	Myclobutanil	42 - 2405	ND*
Carbofuran	42 - 2405	ND*	Naled	42 - 2405	ND*
Chlorantraniliprole	46 - 2405	ND*	Oxamyl	40 - 2405	ND*
Chlorpyrifos	52 - 2405	ND*	Paclobutrazol	44 - 2405	ND*
Clofentezine	273 - 2405	ND*	Permethrin	289 - 2405	ND*
Diazinon	287 - 2405	ND*	Phosmet	41 - 2405	ND*
Dichlorvos	>268	ND*	Prophos	289 - 2405	ND*
Dimethoate	42 - 2405	ND*	Propoxur	42 - 2405	ND*
E-Fenpyroximate	239 - 2405	ND*	Pyridaben	283 - 2405	ND*
Etofenprox	41 - 2405	ND*	Spinosad A	38 - 1897	ND*
Etoxazole	298 - 2405	ND*	Spinosad D	93 - 775	ND*
Fenoxycarb	>40	ND*	Spiromesifen	>272	ND*
Fipronil	22 - 2405	ND*	Spirotetramat	>271	ND*
Flonicamid	46 - 2405	ND*	Spiroxamine 1	18 - 2405	ND*
Fludioxonil	>292	ND*	Spiroxamine 2	24 - 2405	ND*
Hexythiazox	43 - 2405	ND*	Tebuconazole	280 - 2405	ND*
Imazalil	265 - 2405	ND*	Thiacloprid	42 - 2405	ND*
Imidacloprid	42 - 2405	ND*	Thiamethoxam	42 - 2405	ND*
Kresoxim-methyl	40 - 2405	ND*	Trifloxystrobin	40 - 2405	ND*

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

N/A

FINAL APPROVAL


 Tyler Wiese
 23-Jul-2020
 3:06 PM

PREPARED BY / DATE


 Ben Minton
 23-Jul-2020
 6:21 PM

APPROVED BY / DATE

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LD-O-00045-001

Batch ID:		Test ID:	T000086803
Reported:	23-Jul-2020	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		


RESIDUAL SOLVENTS


Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	90 - 1799	*ND
Butanes (Isobutane, n-Butane)	181 - 3619	*ND
Methanol	56 - 1113	*ND
Pentane	81 - 1621	*ND
Ethanol	72 - 1435	*ND
Acetone	93 - 1861	*ND
Isopropyl Alcohol	94 - 1875	*ND
Hexane	6 - 115	*ND
Ethyl Acetate	93 - 1853	*ND
Benzene	0.2 - 3.7	*ND
Heptanes	89 - 1777	*ND
Toluene	17 - 340	*ND
Xylenes (m,p,o-Xylenes)	123 - 2452	*ND

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

NOTES:
N/A

FINAL APPROVAL


 Daniel Weidensaul
 23-Jul-2020
 6:08 PM


 Ben Minton
 23-Jul-2020
 6:59 PM

PREPARED BY / DATE

APPROVED BY / DATE

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