

# CERTIFICATE OF QUALITY ASSURANCE

**PRODUCT NAME:** Full Spec Tincture (All Flavors)  
**CONCENTRATION:** 2500mg - 83.3mg/ml  
**PRODUCT LOT NUMBER:** LB-O-00048  
**OIL LOT NUMBER:** LD-O-00055  
**MANUFACTURE DATE:** 10/5/2020  
*Expiration date is 18 months under sealed conditions*  
**DATE OF ANALYSIS:** 9/28/2020  
**ACTIVE INGREDIENTS:** Phytocannabinoid-Rich Hemp Oil  
**INACTIVE INGREDIENTS:** Certified Organic MCT Oil, Organic Flavor



## ANALYSIS RESULTS FOR FINISHED PRODUCT

### ATTRIBUTE ANALYSIS

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

### CANNABINOID ANALYSIS

COMPOUND	RESULT (mg)	CRITERIA
THC	0.19%	<0.3%
CBD	2435.20mg	2500mg
CBN	25.49mg	NO CRITERIA
CBG	45.01mg	NO CRITERIA
CBDV	8.26mg	NO CRITERIA
CBC	120.74mg	NO CRITERIA
PASS		

### MICROBIAL ANALYSIS

ITEM	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

ITEM	SPECIFICATION	RESULT (CFU/g)	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			

QC Approval: \_\_\_\_\_

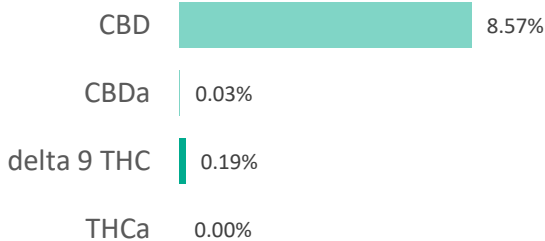
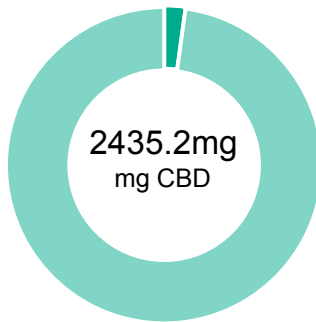
Date: \_\_\_\_\_



LB-O-00048

<b>Batch ID:</b>		<b>Test ID:</b>	T000098790
<b>Reported:</b>	28-Sep-2020	<b>Method:</b>	TM14
<b>Type:</b>	Unit		
<b>Test:</b>	Potency		

### CANNABINOID PROFILE



Compound	LOQ (mg)	Result (mg)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	20.28	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	9.94	53.20	1.9
Cannabidiolic acid (CBDA)	3.55	7.88	0.3
Cannabidiol (CBD)	7.58	2435.20	85.7
Delta 8-Tetrahydrocannabinol (Delta 8THC)	10.85	ND	ND
Cannabinolic Acid (CBNA)	28.13	ND	ND
Cannabinol (CBN)	12.33	25.49	0.9
Cannabigerolic acid (CBGA)	17.71	ND	ND
Cannabigerol (CBG)	9.92	45.01	1.6
Tetrahydrocannabivarinic Acid (THCVA)	17.29	ND	ND
Tetrahydrocannabivarin (THCV)	8.85	ND	ND
Cannabidivarinic Acid (CBDVA)	3.41	ND	ND
Cannabidivarin (CBDV)	1.84	8.26	0.3
Cannabichromenic Acid (CBCA)	15.56	ND	ND
Cannabichromene (CBC)	17.99	120.74	4.3
<b>Total Cannabinoids</b>		<b>2695.78</b>	<b>94.9</b>
<b>Total Potential THC**</b>		<b>53.20</b>	<b>1.9</b>
<b>Total Potential CBD**</b>		<b>2442.11</b>	<b>86.0</b>


#### 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

  
 Michelle Gagnon  
 28-Sep-2020  
 12:35 PM

  
 Greg Zimpfer  
 28-Sep-2020  
 1:08 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-00048

<b>Batch ID:</b>	N/A	<b>Test ID:</b>	T000101915
<b>Type:</b>	Concentrate	<b>Submitted:</b>	10/08/2020 @ 12:53 PM
<b>Test:</b>	Microbial Contaminants	<b>Started:</b>	10/9/2020
<b>Method:</b>	TM24, TM25, TM26, TM27, TM28	<b>Reported:</b>	10/12/2020

### MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
<b>Total Aerobic Count**</b>	None Detected
<b>Total Coliforms**</b>	None Detected
<b>Total Yeast and Molds**</b>	None Detected
<b>E. coli</b>	Absent
<b>STEC and 0157 E. coli</b>	None Detected
<b>Salmonella</b>	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

  
 Nick Tumminaro  
 12-Oct-2020  
 5:38 PM

  
 Ben Minton  
 12-Oct-2020  
 9:12 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.03



LB-O-00048

<b>Batch ID:</b>		<b>Test ID:</b>	T000098791
<b>Reported:</b>	30-Sep-2020	<b>Method:</b>	TM04
<b>Type:</b>	Concentrate		
<b>Test:</b>	Residual Solvents		


### RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	73 - 1466	*ND
Butanes (Isobutane, n-Butane)	158 - 3153	*ND
Methanol	59 - 1180	*ND
Pentane	90 - 1798	*ND
Ethanol	87 - 1744	*ND
Acetone	97 - 1946	*ND
Isopropyl Alcohol	102 - 2046	*ND
Hexane	6 - 122	*ND
Ethyl Acetate	102 - 2041	*ND
Benzene	0.2 - 4.1	*ND
Heptanes	97 - 1944	*ND
Toluene	18 - 355	*ND
Xylenes (m,p,o-Xylenes)	129 - 2578	*ND


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

NOTES:  
N/A

### FINAL APPROVAL

  
 Sam Smith  
 30-Sep-2020  
 1:00 PM

PREPARED BY / DATE

  
 Ben Minton  
 30-Sep-2020  
 1:28 PM

APPROVED BY / DATE

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