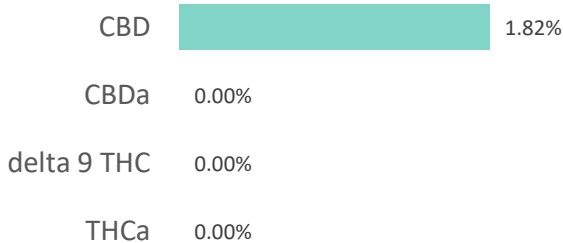
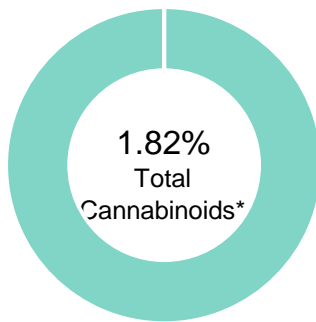


CBD PAIN BALM 500mg

Batch ID:	PB01	Test ID:	5324049.002
Reported:	26-Feb-2020	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE





Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.02	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.01	ND	ND
Cannabidiolic acid (CBDA)	0.02	ND	ND
Cannabidiol (CBD)	0.01	1.82	18.2
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.01	ND	ND
Cannabinolic Acid (CBNA)	0.03	ND	ND
Cannabinol (CBN)	0.01	ND	ND
Cannabigerolic acid (CBGA)	0.02	ND	ND
Cannabigerol (CBG)	0.01	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.02	ND	ND
Tetrahydrocannabivarin (THCV)	0.01	ND	ND
Cannabidivarinic Acid (CBDVA)	0.01	ND	ND
Cannabidivarin (CBDV)	0.01	ND	ND
Cannabichromenic Acid (CBCA)	0.02	ND	ND
Cannabichromene (CBC)	0.02	ND	ND
Total Cannabinoids		1.82	18.20
Total Potential THC**		ND	ND
Total Potential CBD**		1.82	18.20

% = % (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:
N/A

FINAL APPROVAL


 Daniel Weidensaul
 26-Feb-2020
 5:45 PM


 Greg Zimpfer
 26-Feb-2020
 5:52 PM

PREPARED BY / DATE

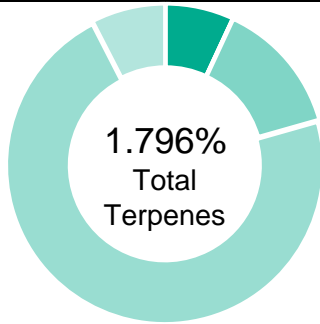
APPROVED BY / DATE

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



CBD PAIN BALM 500mg

Batch ID:	PB01	Test ID:	6541197.001
Reported:	3-Mar-2020	Method:	TM10
Type:	Concentrate		
Test:	Terpenes		

TERPENE PROFILE



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.000	0
Camphene	N/A	N/A
delta-3-Carene	0.000	0
beta-Caryophyllene	0.048	0.48
(-)-Caryophyllene Oxide	0.000	0
p-Cymene	0.044	0.44
Eucalyptol	1.053	10.53
Geraniol	0.000	0
alpha-Humulene	0.000	0
(-)-Isopulegol	0.000	0
d-Limonene	0.087	0.87
Linalool	0.457	4.57
beta-Myrcene	0.000	0
cis-Nerolidol	0.000	0
trans-Nerolidol	0.000	0
Ocimene	0.017	0.17
beta-Ocimene	0.046	0.46
alpha-Pinene	0.044	0.44
(-)-beta-Pinene	0.000	0
alpha-Terpinene	0.000	0
gamma-Terpinene	0.000	0
Terpinolene	0.000	0
	1.796%	17.96

PREDOMINANT TERPENES

alpha-Pinene	0.044%
(-)-beta-Pinene	0.000%
beta-Myrcene	0.000%
delta-3-Carene	0.000%
alpha-Terpinene	0.000%
d-Limonene	0.087%
Linalool	0.457%
beta-Caryophyllene	0.048%
alpha-Humulene	0.000%
(-)-alpha-Bisabolol	0.000%

 NOTES:
 0

FINAL APPROVAL

 Michelle Gagnon 3-Mar-2020 3:19 PM	 Greg Zimpfer 3-Mar-2020 9:08 PM
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PREPARED BY / DATE

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Certificate #4329.02

CBD PAIN BALM 500mg

Batch ID:	PB01	Test ID:	T000063262
Reported:	26-Feb-2020	Method:	TM04
Type:	Topical		
Test:	Residual Solvents		

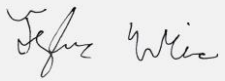
RESIDUAL SOLVENTS


Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	76 - 1523	*ND
Butanes (Isobutane, n-Butane)	150 - 3006	*ND
Methanol	NA	NA
Pentane	83 - 1658	*ND
Ethanol	84 - 1682	*ND
Acetone	90 - 1797	*ND
Isopropyl Alcohol	92 - 1842	*ND
Hexane	5 - 109	*ND
Ethyl Acetate	92 - 1831	*ND
Benzene	0.2 - 3.7	*ND
Heptanes	86 - 1717	*ND
Toluene	17 - 331	*ND
Xylenes (m,p,o-Xylenes)	120 - 2405	*ND

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

NOTES:
N/A

FINAL APPROVAL


 Tyler Wiese
 26-Feb-2020
 7:45 PM
 PREPARED BY / DATE


 Greg Zimpfer
 26-Feb-2020
 8:46 PM
 APPROVED BY / DATE

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Certificate #4329.02

CBD PAIN BALM 500mg

Batch ID:	PB01	Test ID:	T000063263
Reported:	1-Mar-2020	Method:	Topical - Test Methods: TM05, TM06
Type:	Topical		
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
Coliforms: None Detected

FINAL APPROVAL


Robert Belfon
1-Mar-2020
3:04 PM
Mike Branvold
1-Mar-2020
3:47 PM

PREPARED BY / DATE

APPROVED BY / DATE

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