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CERTIFICATE OF ANALYSIS

HPCBN1220-11

Batch ID:	HPCBN1220-11	**Test ID:**	7936460.0031
Reported:	5-Feb-2020	**Method:**	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE

98.72%
Total
Cannabinoids*

CBD	0.00%
CBDa	0.00%
delta 9 THC	0.00%
THCa	0.00%

Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.27	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.13	0.00	0.0
Cannabidiolic acid (CBDA)	0.15	0.00	0.0
Cannabidiol (CBD)	0.08	0.00	0.0
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.15	0.00	0.0
Cannabinolic Acid (CBNA)	0.36	0.00	0.0
Cannabinol (CBN)	0.16	98.72	987.2
Cannabigerolic acid (CBGA)	0.23	0.00	0.0
Cannabigerol (CBG)	0.13	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.23	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.12	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.14	0.00	0.0
Cannabidivarin (CBDV)	0.08	0.00	0.0
Cannabichromenic Acid (CBCA)	0.20	0.00	0.0
Cannabichromene (CBC)	0.24	0.00	0.0
Total Cannabinoids		**98.72**	**987.20**
Total Potential THC**		0.00	0.00
Total Potential CBD**		0.00	0.00

% = % (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))

NOTES:
N/A

FINAL APPROVAL

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

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CERTIFICATE OF ANALYSIS

HPCBN1220-11

Batch ID:	HPCBN1220-11	**Test ID:**	6390272.006
Reported:	6-Feb-2020	**Method:**	TM04
Type:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS

Solvent	Reportable Range (ppm)	Result (ppm)
Propane	100 - 2000	0
Butanes (Isobutane, n-Butane)	100 - 2000	0
Pentane	100 - 2000	0
Ethanol	100 - 2000	0
Acetone	100 - 2000	0
Isopropyl Alcohol	100 - 2000	0
Hexane	6 - 120	0
Benzene	0.2 - 4	0.0
Heptanes	100 - 2000	0
Toluene	18 - 360	0
Xylenes (m,p,o-Xylenes)	43 - 860	0

NOTES:
Free from visual mold, mildew, and foreign matter.

FINAL APPROVAL

Ryan Weems
6-Feb-2020
2:44 PM

PREPARED BY / DATE

Greg Zimpfer
6-Feb-2020
6:29 PM

APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

HPCBN1220-11

Batch ID:	HPCBN1220-11	**Test ID:**	T000057874
Reported:	14-Feb-2020	**Method:**	Arsenic = Arsenic EPA 6020A (mod), Cadmium = Cadmium EPA 6020A (mod), Lead = Lead EPA 6020A (mod), Mercury = Mercury EPA 6020A (mod)
Type:	Other		
Test:	Metals		

HEAVY METALS

Compound	Reporting Limit (ppm)	Result (ppm)
Arsenic	0.05	<0.05
Cadmium	0.05	<0.05
Lead	0.05	<0.05
Mercury	0.05	<0.05

FINAL APPROVAL

Samantha Smith
Sam Smith
14-Feb-2020
8:18 AM

PREPARED BY / DATE

Greg Zimpfer
14-Feb-2020
10:07 AM

APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

HPCBN1220-11

Batch ID:	HPCBN1220-11	**Test ID:**	9388441.0019
Reported:	6-Feb-2020	**Method:**	TM17
Type:	Concentrate		
Test:	Pesticides		

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	52 - 2385	ND*
Acetamiprid	52 - 2385	ND*
Avermectin	309 - 2385	ND*
Azoxystrobin	52 - 2385	ND*
Bifenazate	52 - 2385	N/A
Boscalid	309 - 2385	ND*
Carbaryl	52 - 2385	ND*
Carbofuran	52 - 2385	ND*
Chlorantraniliprole	52 - 2385	ND*
Chlorpyrifos	309 - 2385	ND*
Clofentezine	52 - 2385	ND*
Diazinon	52 - 2385	ND*
Dichlorvos	309 - 2385	ND*
Dimethoate	52 - 2385	ND*
E-Fenpyroximate	309 - 2385	ND*
Etofenprox	309 - 2385	ND*
Etoxazole	309 - 2385	ND*
Fenoxycarb	52 - 2385	ND*
Fipronil	309 - 2385	ND*
Flonicamid	52 - 2385	ND*
Fludioxonil	309 - 2385	ND*
Hexythiazox	309 - 2385	ND*
Imazalil	309 - 2385	ND*
Imidacloprid	52 - 2385	ND*
Kresoxim-methyl	52 - 2385	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	52 - 2385	ND*
Metalaxyl	309 - 2385	ND*
Methiocarb	52 - 2385	ND*
Methomyl	52 - 2385	ND*
MGK 264 1	52 - 2385	ND*
MGK 264 2	309 - 2385	ND*
Myclobutanil	309 - 2385	ND*
Naled	309 - 2385	ND*
Oxamyl	52 - 2385	ND*
Paclobutrazol	52 - 2385	ND*
Permethrin	309 - 2385	ND*
Phosmet	52 - 2385	ND*
Prophos	309 - 2385	ND*
Propoxur	309 - 2385	ND*
Pyridaben	309 - 2385	ND*
Spinosad A	52 - 2385	ND*
Spinosad D	309 - 2385	ND*
Spiromesifen	52 - 2385	ND*
Spirotetramat	309 - 2385	ND*
Spiroxamine 1	52 - 2385	ND*
Spiroxamine 2	52 - 2385	ND*
Tebuconazole	52 - 2385	ND*
Thiacloprid	52 - 2385	ND*
Thiamethoxam	52 - 2385	ND*
Trifloxystrobin	309 - 2385	ND*

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

N/A

FINAL APPROVAL

Samantha Smith

Sam Smith
6-Feb-2020
7:20 AM

PREPARED BY / DATE

Greg Zimpfer
6-Feb-2020
10:52 AM

APPROVED BY / DATE

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