

CBN Isolate

Batch ID:	081120	Test ID:	T000090470
Reported:	17-Aug-2020	Method:	TM14
Type:	Concentrate		
Test:	Potency		

CANNABINOID PROFILE

		Compound	LOQ (%)	Result (%)	Result (mg/g)
		Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.42	ND	ND
		Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.21	ND	ND
		Cannabidiolic acid (CBDA)	0.22	ND	ND
		Cannabidiol (CBD)	0.13	ND	ND
		Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.23	0.52	5.2
		Cannabinolic Acid (CBNA)	0.57	ND	ND
		Cannabinol (CBN)	0.25	94.70	947.0
		Cannabigerolic acid (CBGA)	0.36	ND	ND
		Cannabigerol (CBG)	0.21	ND	ND
		Tetrahydrocannabivarinic Acid (THCVA)	0.36	ND	ND
		Tetrahydrocannabivarin (THCV)	0.19	ND	ND
		Cannabidivarinic Acid (CBDVA)	0.21	ND	ND
		Cannabidivarin (CBDV)	0.11	ND	ND
		Cannabichromenic Acid (CBCA)	0.31	ND	ND
		Cannabichromene (CBC)	0.38	ND	ND
		Total Cannabinoids		95.22	952.2
		Total Potential THC**		ND	ND
		Total Potential CBD**		ND	ND

95.22% Total Cannabinoids*	CBD 0.00% CBDa 0.00% delta 9 THC 0.00% THCa 0.00%
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NOTES:

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

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

FINAL APPROVAL

Daniel Weidensaul
 17-Aug-2020
 5:12 PM


Scott Hanson
 17-Aug-2020
 6:49 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

CBN Isolate

Batch ID:	081120	Test ID:	T000090471
Reported:	17-Aug-2020	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS


Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	96 - 1929	*ND
Butanes (Isobutane, n-Butane)	146 - 2923	*ND
Methanol	62 - 1238	*ND
Pentane	87 - 1731	368
Ethanol	85 - 1691	*ND
Acetone	101 - 2019	*ND
Isopropyl Alcohol	106 - 2111	*ND
Hexane	6 - 121	*ND
Ethyl Acetate	101 - 2022	*ND
Benzene	0.2 - 4.1	*ND
Heptanes	94 - 1878	*ND
Toluene	18 - 368	*ND
Xylenes (m,p,o-Xylenes)	133 - 2662	*ND

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

NOTES:

N/A

FINAL APPROVAL



Ryan Weems
17-Aug-2020
6:12 PM

PREPARED BY / DATE



Scott Hanson
17-Aug-2020
7:42 PM

APPROVED BY / DATE

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Certificate #4329.02

CBNIH

Batch ID:	081120	Test ID:	6179197.006
Reported:	18-Aug-2020	Method:	TM10
Type:	Concentrate		
Test:	Terpenes		

TERPENE PROFILE

	Compound	%(w/w)	mg/g
	(-)-alpha-Bisabolol	0.000	0
	Camphene	0.000	0
	delta-3-Carene	0.000	0
	beta-Caryophyllene	0.000	0
	(-)-Caryophyllene Oxide	0.000	0
	p-Cymene	0.000	0
	Eucalyptol	0.000	0
	Geraniol	0.000	0
	alpha-Humulene	0.000	0
	(-)-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
		0.000%	0.00

0.000%
Total
Terpenes

PREDOMINANT TERPENES

alpha-Pinene	0.000%
(-)-beta-Pinene	0.000%
beta-Myrcene	0.000%
delta-3-Carene	0.000%
alpha-Terpinene	0.000%
alpha-Limonene	0.000%
Linalool	0.000%
beta-Caryophyllene	0.000%
alpha-Humulene	0.000%
(-)-alpha-Bisabolol	0.000%

 NOTES:
 0

FINAL APPROVAL

 Michelle Gagnon 18-Aug-2020 1:42 PM	 Ben Minton 18-Aug-2020 2:37 PM
PREPARED BY / DATE	APPROVED BY / DATE

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Certificate #4329.02

CBNIH

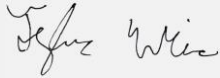
Batch ID:	081120	Test ID:	6488737.0023
Reported:	18-Aug-2020	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	41 - 2577	ND*	Malathion	300 - 2577	ND*
Acetamiprid	42 - 2577	ND*	Metalaxyl	47 - 2577	ND*
Abamectin	>307	ND*	Methiocarb	43 - 2577	ND*
Azoxystrobin	44 - 2577	ND*	Methomyl	44 - 2577	ND*
Bifenazate	32 - 2577	ND*	MGK 264 1	179 - 2577	ND*
Boscalid	39 - 2577	ND*	MGK 264 2	111 - 2577	ND*
Carbaryl	40 - 2577	ND*	Myclobutanil	46 - 2577	ND*
Carbofuran	45 - 2577	ND*	Naled	48 - 2577	ND*
Chlorantraniliprole	37 - 2577	ND*	Oxamyl	42 - 2577	ND*
Chlorpyrifos	45 - 2577	ND*	Paclobutrazol	47 - 2577	ND*
Clofentezine	312 - 2577	ND*	Permethrin	299 - 2577	ND*
Diazinon	296 - 2577	ND*	Phosmet	46 - 2577	ND*
Dichlorvos	>297	ND*	Prophos	303 - 2577	ND*
Dimethoate	42 - 2577	ND*	Propoxur	46 - 2577	ND*
E-Fenpyroximate	299 - 2577	ND*	Pyridaben	305 - 2577	ND*
Etofenprox	43 - 2577	ND*	Spinosad A	30 - 2577	ND*
Etoxazole	307 - 2577	ND*	Spinosad D	79 - 2577	ND*
Fenoxycarb	>49	ND*	Spiromesifen	>283	ND*
Fipronil	38 - 2577	ND*	Spirotetramat	>312	ND*
Flonicamid	49 - 2577	ND*	Spiroxamine 1	20 - 2577	ND*
Fludioxonil	>316	ND*	Spiroxamine 2	25 - 2577	ND*
Hexythiazox	47 - 2577	ND*	Tebuconazole	303 - 2577	ND*
Imazalil	281 - 2577	ND*	Thiacloprid	43 - 2577	ND*
Imidacloprid	45 - 2577	ND*	Thiamethoxam	39 - 2577	ND*
Kresoxim-methyl	48 - 2577	ND*	Trifloxystrobin	45 - 2577	ND*

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

N/A

FINAL APPROVAL

 Tyler Wiese
 18-Aug-2020
 6:09 PM
 PREPARED BY / DATE


 Ben Minton
 18-Aug-2020
 6:28 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.