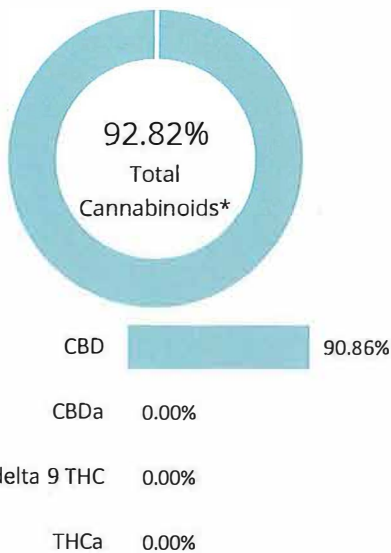


8.02.10.22

<b>Batch ID:</b>		<b>Test ID:</b>	T000192317
<b>Type:</b>	Concentrate	<b>Submitted:</b>	02/14/2022 @ 08:55 AM
<b>Test:</b>	Potency	<b>Started:</b>	2/16/2022
<b>Method:</b>	TM14 (HPLC-DAD)	<b>Reported:</b>	2/17/2022

## CANNABINOID PROFILE



Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.10	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.11	ND	ND
Cannabidiolic acid (CBDA)	0.11	ND	ND
Cannabidiol (CBD)	0.11	90.86	908.6
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.12	ND	ND
Cannabinolic Acid (CBNA)	0.07	ND	ND
Cannabinol (CBN)	0.03	0.10	1.0
Cannabigerolic acid (CBGA)	0.10	ND	ND
Cannabigerol (CBG)	0.02	1.42	14.2
Tetrahydrocannabivarinic Acid (THCVA)	0.09	ND	ND
Tetrahydrocannabivarin (THCV)	0.02	ND	ND
Cannabidivarinic Acid (CBDVA)	0.05	ND	ND
Cannabidivarin (CBDV)	0.03	0.32	3.2
Cannabichromenic Acid (CBCA)	0.04	ND	ND
Cannabichromene (CBC)	0.04	0.12	1.2
<b>Total Cannabinoids</b>		<b>92.82</b>	<b>928.2</b>
Total Potential THC**		ND	ND
Total Potential CBD**		90.86	908.6

### 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.

$$\text{Total THC} = \text{THC} + (\text{THCa} \times (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDA} \times (0.877))$$

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

## FINAL APPROVAL



 Karen Winternheimer  
 17-Feb-2022  
 1:16 PM



 Rvan Weems  
 17-Feb-2022  
 1:18 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

8.02.10.22

Batch ID or Lot Number:	Test: <b>Pesticides</b>	Reported: <b>17Feb2022</b>	NA
Matrix: Concentrate	Test ID: T000192319	Started: 16Feb2022	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 14Feb2022	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	314 - 2696	ND	Malathion	292 - 2740	ND
Acephate	43 - 2787	ND	Metalaxyl	43 - 2753	ND
Acetamiprid	40 - 2768	ND	Methiocarb	43 - 2731	ND
Azoxystrobin	43 - 2742	ND	Methomyl	40 - 2785	ND
Bifenazate	43 - 2730	ND	MGK 264 1	161 - 1620	ND
Boscalid	38 - 2744	ND	MGK 264 2	115 - 1133	ND
Carbaryl	40 - 2740	ND	Myclobutanil	39 - 2742	ND
Carbofuran	42 - 2724	ND	Naled	48 - 2760	ND
Chlorantraniliprole	49 - 2714	ND	Oxamyl	42 - 2778	ND
Chlorpyrifos	46 - 2760	ND	Paclobutrazol	43 - 2734	ND
Clofentezine	285 - 2753	ND	Permethrin	306 - 2744	ND
Diazinon	290 - 2772	ND	Phosmet	41 - 2744	ND
Dichlorvos	281 - 2756	ND	Prophos	298 - 2750	ND
Dimethoate	41 - 2744	ND	Propoxur	42 - 2732	ND
E-Fenpyroximate	288 - 2736	ND	Pyridaben	292 - 2774	ND
Etofenprox	42 - 2753	ND	Spinosad A	31 - 2244	ND
Etoazole	295 - 2737	ND	Spinosad D	46 - 498	ND
Fenoxycarb	45 - 2756	ND	Spiromesifen	276 - 2767	ND
Fipronil	40 - 2762	ND	Spirotetramat	291 - 2749	ND
Flonicamid	44 - 2790	ND	Spiroxamine 1	17 - 1170	ND
Fludioxonil	314 - 2735	ND	Spiroxamine 2	23 - 1542	ND
Hexythiazox	44 - 2754	ND	Tebuconazole	285 - 2750	ND
Imazalil	267 - 2775	ND	Thiacloprid	42 - 2756	ND
Imidacloprid	42 - 2737	ND	Thiamethoxam	43 - 2801	ND
Kresoxim-methyl	44 - 2759	ND	Trifloxystrobin	42 - 2753	ND

Final Approval

*Samantha Smith*  
 Sam Smith  
 17Feb2022  
 02:00:00 PM MST

*Daniel Weldensaul*  
 Daniel Weldensaul  
 17Feb2022  
 02:11:00 PM MST



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/apl/v1/coas/uuld/35253edd-2d87-4a23-bb09-06c2bc421e14>

**Definitions**  
 ND = None Detected (defined by dynamic range of the method)  
 Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range  
 ppb = Parts Per Billion

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Cell #44329.02  
 35253edd2d874a23bb0906c2bc421e14.1

**8.02.10.22**

Batch ID or Lot Number:	Test: <b>Residual Solvents</b>	Reported: <b>17Feb2022</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000192322	Started: 16Feb2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 14Feb2022	Status: N/A

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	92 - 1838	ND	
Butanes (Isobutane, n-Butane)	187 - 3746	ND	
Methanol	64 - 1276	ND	
Pentane	98 - 1956	ND	
Ethanol	100 - 2007	ND	
Acetone	104 - 2082	ND	
Isopropyl Alcohol	109 - 2176	ND	
Hexane	6 - 128	ND	
Ethyl Acetate	108 - 2155	ND	
Benzene	0.2 - 4.4	ND	
Heptanes	102 - 2033	ND	
Toluene	19 - 374	ND	
Xylenes (m,p,o-Xylenes)	131 - 2624	ND	

**Final Approval**


 Hannah Wright  
 17Feb2022  
 06:08:00 PM MST



 Ryan Weems  
 17Feb2022  
 06:10:00 PM MST


PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/41b060a2-1d07-4f57-91e8-5ab6329efb71>
**Definitions**

 ND = None Detected (defined by dynamic range of the method)  
 Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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 Cert #4329 02  
 41b060a21d074f5791e85ab6329efb71.1

Version 1.0  
 2020/02/01 (2020/02/01)  
 1/15/2022  
 06:55:00 PM MST

8.02.10.22

Batch ID or Lot Number:	Test: <b>Heavy Metals</b>	Reported: <b>15Feb2022</b>	USDA License: NA
Matrix: Concentrate	Test ID: T000192321	Started: 15Feb2022	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 14Feb2022	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.47	ND	
Cadmium	0.04 - 4.29	ND	
Mercury	0.04 - 4.47	ND	
Lead	0.04 - 4.45	ND	

Final Approval



Daniel Weidensaul  
 16Feb2022  
 06:52:00 PM MST



Ryan Weems  
 16Feb2022  
 06:55:00 PM MST



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/5208751c-c4e5-4167-b4e1-70bcf4fb3402>

Definitions

ND = None Detected (defined by dynamic range of the method)  
 Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Gen #4329.02  
 5208751cc4e54167b4e170bcf4fb3402.1



8.02.10.22

Batch ID or Lot Number:	Test: <b>Microbial Contaminants</b>	Reported: <b>17Feb2022</b>	USDA License: NA
Matrix: Concentrate	Test ID: T000192320	Started: 14Feb2022	Sampler ID: NA
	Method(s): TM25 (qPCR) TM24, TM26, TM27, TM28 (Culture Plating)	Received: 14Feb2022	Status: NA

**Microbial**
**Contaminants**

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/g	NA	Absent	None Detected
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	None Detected
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

**Final Approval**


 Brett Hudson  
 17Feb2022  
 12:27:00 PM MST



 Sarah Henning  
 17Feb2022  
 01:15:00 PM MST


PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/d0ec6676-d9b7-422e-b12c-419ca69d8dac>
**Definitions**

\* 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<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 100,000 CFU  
 CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection  
 ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation  
 STEC = Shiga Toxin-Producing E. coli

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 Cert #4329 02  
 d0ec6676d9b7422eb12c419ca69d8dac.1