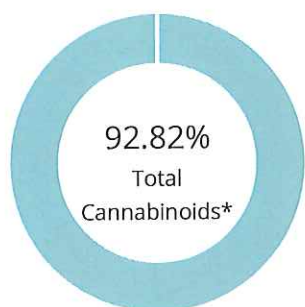


8.02.10.22

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

CANNABINOID PROFILE



CBD 90.86%

CBDa 0.00%

delta 9 THC 0.00%

THCa 0.00%

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
Total Cannabinoids		92.82	928.2
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.

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



Karen Winternheimer
17-Feb-2022
1:16 PM



Ryan 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: Pesticides	Reported: 17Feb2022	USDA License: 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)		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
Etoxazole	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 Weidensaul

Daniel Weidensaul
17Feb2022
02:11:00 PM MST

PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/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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Cert #4329.02
35253edd2d874a23bb0906c2bc421e14.1

8.02.10.22

Batch ID or Lot Number:	Test: Residual Solvents	Reported: 17Feb2022	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/4fb060a2-fd07-4f57-91e8-5ab6329efb7f>

Definitions

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

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.



Cert #4329 02
4fb060a2fd074f5791e85ab6329efb7f.1
Certified Test Laboratory

8.02.10.22

Batch ID or Lot Number:	Test: Heavy Metals	Reported: 15Feb2022	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/apl/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

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.



Cert #4329.02
5208751cc4e54167b4e170bcf4fb3402.1

8.02.10.22

Batch ID or Lot Number:	Test: Microbial Contaminants	Reported: 17Feb2022	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

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/g	NA	Absent	None Detected
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	None Detected
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 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
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