SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Prepared for:
Crested River Cannabis Company

79 Vernon Ave
Morgan, MN USA 56266

WHITE CHOCOLATE

Batch ID or Lot Number:	**Test:**	**Reported:**	**USDA License:**
221229.3	Potency	05Jan2023	N/A
Matrix:	**Test ID:**	**Started:**	**Sampler ID:**
Finished Product	T000231689	04Jan2023	N/A
	Method(s):	**Received:**	**Status:**
	TM14 (HPLC-DAD)	03Jan2023	N/A

Cannabinoids

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.073	0.255	<LOQ	<LOQ	# of Servings = 1, Sample Weight=4.463g
Cannabichromenic Acid (CBCA)	0.067	0.233	ND	ND	
Cannabidiol (CBD)	0.281	0.676	<LOQ	<LOQ	
Cannabidiolic Acid (CBDA)	0.288	0.694	ND	ND	
Cannabidivarin (CBDV)	0.066	0.160	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.120	0.289	ND	ND	
Cannabigerol (CBG)	0.041	0.145	1.100	0.20	
Cannabigerolic Acid (CBGA)	0.173	0.605	ND	ND	
Cannabinol (CBN)	0.054	0.189	ND	ND	
Cannabinolic Acid (CBNA)	0.118	0.413	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.206	0.720	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.187	0.654	4.570	1.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.166	0.580	ND	ND	
Tetrahydrocannabivarin (THCV)	0.038	0.132	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.146	0.511	ND	ND	
Total Cannabinoids			**5.670**	**1.20**	
Total Potential THC			4.570	1.00	
Total Potential CBD			0.000	0.00	

Final Approval

Karen Winternheimer
05Jan2023
11:06:00 AM MST

PREPARED BY / DATE

Sam Smith
05Jan2023
11:09:00 AM MST

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/4af3a2b4-b081-4fc4-93a4-4930bffdabae

Definitions
% = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method).
Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877)).

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Batch ID or Lot Number:	**Test:**	**Reported:**	**USDA License:**
221229.3	Heavy Metals	05Jan2023	NA
Matrix:	**Test ID:**	**Started:**	**Sampler ID:**
Unit	T000223187	04Jan2023	NA
	Method(s):	**Received:**	**Status**:
	TM19 (ICP-MS): Heavy Metals	03Jan2023	NA

Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.34	ND	
Cadmium	0.04 - 4.45	ND	
Mercury	0.05 - 4.51	ND	
Lead	0.04 - 4.33	ND	

Final Approval

Daniel Weidensaul
05Jan2023
11:06:00 AM MST
PREPARED BY / DATE

Sam Smith
05Jan2023
11:09:00 AM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/0a82876a-389d-4a8c-b669-cb1a64319330

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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WHITE CHOCOLATE

Batch ID or Lot Number: 221229.3	**Test:** Microbial Contaminants	**Reported:** 05Jan2023	**USDA License:** NA
Matrix: Finished Product	**Test ID:** T000223172	**Started:** 04Jan2023	**Sampler ID:** NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	**Received:** 03Jan2023	**Status:** NA

Microbial Contaminants

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10^0 CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10^0 CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10^1 CFU/g	$1.0x10^2$ - $1.5x10^4$	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

Brianne Maillot
05Jan2023
11:06:00 AM MST
PREPARED BY / DATE

Brett Hudson
05Jan2023
11:09:00 AM MST
APPROVED BY / DATE

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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: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 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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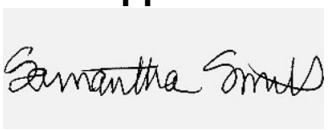
Batch ID or Lot Number:	Test:	Reported:	USDA License:
221229.3	Residual Solvents	05Jan2023	N/A
Matrix:	**Test ID:**	**Started:**	**Sampler ID:**
Finished Product	T000223255	04Jan2023	N/A
	Method(s):	**Received:**	**Status:**
	TM04 (GC-MS): Residual Solvents	03Jan2023	Active

Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	79 - 1584	ND	
Butanes (Isobutane, n-Butane)	170 - 3399	ND	
Methanol	59 - 1180	ND	
Pentane	93 - 1856	ND	
Ethanol	97 - 1935	ND	
Acetone	94 - 1876	ND	
Isopropyl Alcohol	100 - 2000	ND	
Hexane	5 - 110	ND	
Ethyl Acetate	95 - 1904	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	97 - 1946	ND	
Toluene	17 - 345	ND	
Xylenes (m,p,o-Xylenes)	127 - 2534	ND	

Final Approval



Sam Smith
05Jan2023
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Daniel Weidensaul
05Jan2023
11:09:00 AM MST

APPROVED BY / DATE

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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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Batch ID or Lot Number:	Test:	Reported:	USDA License:
221229.3	Pesticides	05Jan2023	NA
Matrix:	**Test ID:**	**Started:**	**Sampler ID:**
Concentrate	T000223176	04Jan2023	NA
	Method(s):	**Received:**	**Status:**
	TM17 (LC-QQ LC MS/MS)	03Jan2023	NA

Pesticides

	Dynamic Range (ppb)	Result (ppb)
Abamectin	343 - 2633	ND
Acephate	40 - 2824	ND
Acetamiprid	42 - 2765	ND
Azoxystrobin	50 - 2663	ND
Bifenazate	46 - 2726	ND
Boscalid	47 - 2837	ND
Carbaryl	41 - 2776	ND
Carbofuran	44 - 2712	ND
Chlorantraniliprole	47 - 2847	ND
Chlorpyrifos	51 - 2754	ND
Clofentezine	310 - 2221	ND
Diazinon	293 - 2768	ND
Dichlorvos	273 - 2757	ND
Dimethoate	41 - 2727	ND
E-Fenpyroximate	288 - 2736	ND
Etofenprox	49 - 2709	ND
Etoxazole	291 - 2747	ND
Fenoxycarb	50 - 2707	ND
Fipronil	73 - 2722	ND
Flonicamid	53 - 2734	ND
Fludioxonil	293 - 2884	ND
Hexythiazox	42 - 2757	ND
Imazalil	248 - 2765	ND
Imidacloprid	51 - 2858	ND
Kresoxim-methyl	50 - 2750	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	287 - 2726	ND
Metalaxyl	44 - 2746	ND
Methiocarb	41 - 2930	ND
Methomyl	37 - 2798	ND
MGK 264 1	194 - 1566	ND
MGK 264 2	118 - 1126	ND
Myclobutanil	47 - 2800	ND
Naled	55 - 2715	ND
Oxamyl	41 - 2767	ND
Paclobutrazol	47 - 2699	ND
Permethrin	308 - 2693	ND
Phosmet	48 - 2711	ND
Prophos	280 - 2761	ND
Propoxur	44 - 2742	ND
Pyridaben	287 - 2748	ND
Spinosad A	42 - 2135	ND
Spinosad D	51 - 488	ND
Spiromesifen	249 - 2787	ND
Spirotetramat	296 - 2679	ND
Spiroxamine 1	17 - 1222	ND
Spiroxamine 2	23 - 1628	ND
Tebuconazole	292 - 2768	ND
Thiacloprid	42 - 2739	ND
Thiamethoxam	41 - 2737	ND
Trifloxystrobin	53 - 2624	ND

Final Approval

Sam Smith
05Jan2023
11:06:00 AM MST
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Karen Winternheimer
05Jan2023
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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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