

Prepared for:  
**Crested River Cannabis Company**

79 Vernon Ave  
Morgan, MN USA 56266

## PEPPERMINT CHOCOLATE

<b>Batch ID or Lot Number:</b> 221229.4	<b>Test:</b> Potency	<b>Reported:</b> 05Jan2023	<b>USDA License:</b> N/A
<b>Matrix:</b> Finished Product	<b>Test ID:</b> T000231690	<b>Started:</b> 04Jan2023	<b>Sampler ID:</b> N/A
	<b>Method(s):</b> TM14 (HPLC-DAD)	<b>Received:</b> 03Jan2023	<b>Status:</b> N/A

### Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.068	0.236	<LOQ	<LOQ	# of Servings = 1, Sample Weight=4.167g
Cannabichromenic Acid (CBCA)	0.062	0.216	ND	ND	
Cannabidiol (CBD)	0.261	0.628	<LOQ	<LOQ	
Cannabidiolic Acid (CBDA)	0.267	0.644	ND	ND	
Cannabidivarin (CBDV)	0.062	0.148	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.111	0.269	ND	ND	
Cannabigerol (CBG)	0.038	0.134	1.060	0.30	
Cannabigerolic Acid (CBGA)	0.160	0.561	ND	ND	
Cannabinol (CBN)	0.050	0.175	ND	ND	
Cannabinolic Acid (CBNA)	0.109	0.383	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.191	0.668	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.173	0.607	4.500	1.10	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.154	0.538	ND	ND	
Tetrahydrocannabivarin (THCV)	0.035	0.122	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.136	0.474	ND	ND	
<b>Total Cannabinoids</b>			<b>5.560</b>	<b>1.40</b>	
Total Potential THC			4.500	1.10	
Total Potential CBD			0.000	0.00	

### Final Approval



Karen Winterheimer  
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/c73560a5-53e5-46b2-a175-f13d04289bdc>

**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)).

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.



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## PEPPERMINT CHOCOLATE

<b>Batch ID or Lot Number:</b> 221229.4	<b>Test:</b> Heavy Metals	<b>Reported:</b> 04Oct2022	<b>USDA License:</b> NA
<b>Matrix:</b> Finished Product	<b>Test ID:</b> T000224827	<b>Started:</b> 04Oct2022	<b>Sampler ID:</b> NA
	<b>Method(s):</b> TM19 (ICP-MS): Heavy Metals	<b>Received:</b> 30Sep2022	<b>Status:</b> 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



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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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## PEPPERMINT CHOCOLATE

<b>Batch ID or Lot Number:</b> 221229.4	<b>Test:</b> Microbial Contaminants	<b>Reported:</b> 04Oct2022	<b>USDA License:</b> NA
<b>Matrix:</b> Finished Product	<b>Test ID:</b> T000224752	<b>Started:</b> 30Sep2022	<b>Sampler ID:</b> NA
	<b>Method(s):</b> TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	<b>Received:</b> 30Sep2022	<b>Status:</b> NA

## Microbial

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	
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	
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



Brianne Maillot  
05Jan2023  
11:06:00 AM MST



Brett Hudson  
05Jan2023  
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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<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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## PEPPERMINT CHOCOLATE

<b>Batch ID or Lot Number:</b> 221229.4	<b>Test:</b> Residual Solvents	<b>Reported:</b> 05Oct2022	<b>USDA License:</b> N/A
<b>Matrix:</b> Finished Product	<b>Test ID:</b> T000226195	<b>Started:</b> 05Oct2022	<b>Sampler ID:</b> N/A
	<b>Method(s):</b> TM04 (GC-MS): Residual Solvents	<b>Received:</b> 30Sep2022	<b>Status:</b> 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	

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Sam Smith  
05Jan2023  
11:06:00 AM MST

  
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Daniel Weidensaul  
05Jan2023  
11:09:00 AM MST



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## PEPPERMINT CHOCOLATE

<b>Batch ID or Lot Number:</b> 221229.4	<b>Test:</b> Pesticides	<b>Reported:</b> 09Oct2022	<b>USDA License:</b> NA
<b>Matrix:</b> Concentrate	<b>Test ID:</b> T000224326	<b>Started:</b> 07Oct2022	<b>Sampler ID:</b> NA
	<b>Method(s):</b> TM17 (LC-QQ LC MS/MS)	<b>Received:</b> 30Sep2022	<b>Status:</b> NA

Pesticides	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	343 - 2633	ND		Malathion	287 - 2726	ND
Acephate	40 - 2824	ND		Metalaxyl	44 - 2746	ND
Acetamiprid	42 - 2765	ND		Methiocarb	41 - 2930	ND
Azoxystrobin	50 - 2663	ND		Methomyl	37 - 2798	ND
Bifenazate	46 - 2726	ND		MGK 264 1	194 - 1566	ND
Boscalid	47 - 2837	ND		MGK 264 2	118 - 1126	ND
Carbaryl	41 - 2776	ND		Myclobutanil	47 - 2800	ND
Carbofuran	44 - 2712	ND		Naled	55 - 2715	ND
Chlorantraniliprole	47 - 2847	ND		Oxamyl	41 - 2767	ND
Chlorpyrifos	51 - 2754	ND		Pacllobutrazol	47 - 2699	ND
Clofentezine	310 - 2221	ND		Permethrin	308 - 2693	ND
Diazinon	293 - 2768	ND		Phosmet	48 - 2711	ND
Dichlorvos	273 - 2757	ND		Prophos	280 - 2761	ND
Dimethoate	41 - 2727	ND		Propoxur	44 - 2742	ND
E-Fenpyroximate	288 - 2736	ND		Pyridaben	287 - 2748	ND
Etofenprox	49 - 2709	ND		Spinosad A	42 - 2135	ND
Etoxazole	291 - 2747	ND		Spinosad D	51 - 488	ND
Fenoxycarb	50 - 2707	ND		Spiromesifen	249 - 2787	ND
Fipronil	73 - 2722	ND		Spirotetramat	296 - 2679	ND
Flonicamid	53 - 2734	ND		Spiroxamine 1	17 - 1222	ND
Fludioxonil	293 - 2884	ND		Spiroxamine 2	23 - 1628	ND
Hexythiazox	42 - 2757	ND		Tebuconazole	292 - 2768	ND
Imazalil	248 - 2765	ND		Thiacloprid	42 - 2739	ND
Imidacloprid	51 - 2858	ND		Thiamethoxam	41 - 2737	ND
Kresoxim-methyl	50 - 2750	ND		Trifloxystrobin	53 - 2624	ND

## Final Approval

  
Samantha Smith  
05Jan2023  
11:06:00 AM MST

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Karen Winternheimer  
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  
ppb = Parts Per Billion

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