

Prepared for:

## Bent Paddle Brewing Co

1912 W Michigan St.  
Duluth, MN USA 55806

### THC+ Berry Stash

Batch ID or Lot Number: <b>050423</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 3
Reported: <b>09May2023</b>	Started: 05May2023	Received: 02May2023	

### Heavy Metals

Test ID: T000242945

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.82	ND	Amendment to T000242945 issued on 05May2023 to correct the batch ID.
Cadmium	0.05 - 4.65	ND	
Mercury	0.05 - 4.67	ND	
Lead	0.01 - 1.47	ND	

### Final Approval

  
Karen Winternheimer  
08May2023  
10:22:00 AM MDT  
PREPARED BY / DATE

  
Sam Smith  
09May2023  
12:46:00 PM MDT  
APPROVED BY / DATE

### Cannabinoids

Test ID: T000242942

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.165	0.489	<LOQ	<LOQ	Amendment to T000242942 issued on 02May2023 to correct the batch ID. # of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.151	0.447	ND	ND	
Cannabidiol (CBD)	0.492	1.314	5.990	0.00	
Cannabidiolic Acid (CBDA)	0.505	1.347	ND	ND	
Cannabidivarin (CBDV)	0.116	0.311	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.211	0.562	ND	ND	
Cannabigerol (CBG)	0.094	0.277	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.392	1.160	ND	ND	
Cannabinol (CBN)	0.122	0.362	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.268	0.791	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.467	1.381	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.424	1.255	5.170	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.376	1.112	ND	ND	
Tetrahydrocannabivarin (THCV)	0.085	0.252	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.332	0.980	ND	ND	
<b>Total Cannabinoids</b>			<b>11.160</b>	<b>0.00</b>	
Total Potential THC			5.170	0.00	
Total Potential CBD			5.990	0.00	

### Final Approval

  
Karen Winternheimer  
08May2023  
09:48:00 AM MDT  
PREPARED BY / DATE

  
Sam Smith  
09May2023  
12:53:00 PM MDT  
APPROVED BY / DATE

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## Pesticides

Test ID: T000242943

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)	Dynamic Range (ppb)	Result (ppb)	
Abamectin	357 - 3481	ND	Malathion	300 - 2788	ND
Acephate	68 - 2750	ND	Metalaxyl	44 - 2763	ND
Acetamiprid	46 - 2854	ND	Methiocarb	50 - 2812	ND
Azoxystrobin	44 - 2716	ND	Methomyl	49 - 2924	ND
Bifenazate	37 - 2690	ND	MGK 264 1	189 - 1720	ND
Boscalid	47 - 2701	ND	MGK 264 2	122 - 1074	ND
Carbaryl	39 - 2777	ND	Myclobutanil	49 - 2745	ND
Carbofuran	44 - 2766	ND	Naled	47 - 2797	ND
Chlorantraniliprole	48 - 2676	ND	Oxamyl	50 - 2938	ND
Chlorpyrifos	38 - 2918	ND	Paclobutrazol	38 - 2635	ND
Clofentezine	297 - 2744	ND	Permethrin	279 - 2800	ND
Diazinon	282 - 2764	ND	Phosmet	42 - 2709	ND
Dichlorvos	369 - 2754	ND	Prophos	290 - 2836	ND
Dimethoate	51 - 2873	ND	Propoxur	43 - 2770	ND
E-Fenpyroximate	291 - 2742	ND	Pyridaben	286 - 2813	ND
Etofenprox	41 - 2846	ND	Spinosad A	32 - 2061	ND
Etoxazole	284 - 2909	ND	Spinosad D	64 - 700	ND
Fenoxycarb	2 - 2719	ND	Spiromesifen	316 - 2739	ND
Fipronil	56 - 2573	ND	Spirotetramat	285 - 2660	ND
Flonicamid	45 - 2849	ND	Spiroxamine 1	20 - 1229	ND
Fludioxonil	313 - 2758	ND	Spiroxamine 2	27 - 1592	ND
Hexythiazox	40 - 2748	ND	Tebuconazole	297 - 2618	ND
Imazalil	284 - 2789	ND	Thiacloprid	46 - 2805	ND
Imidacloprid	37 - 2793	ND	Thiamethoxam	42 - 2840	ND
Kresoxim-methyl	39 - 2799	ND	Trifloxystrobin	44 - 2739	ND

## Final Approval

  
Karen Winternheimer  
08May2023  
10:17:00 AM MDT  
PREPARED BY / DATE

  
Sam Smith  
09May2023  
12:49:00 PM MDT  
APPROVED BY / DATE

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## THC+ Berry Stash

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## Microbial Contaminants

Test ID: T000242944

Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Amendment to T000242944 issued on 05May2023 to correct the batch ID. 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

  
Eden Thompson-Wright  
08May2023  
09:53:00 AM MDT  
PREPARED BY / DATE

  
Brianne Maillot  
09May2023  
12:55:00 PM MDT  
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/1f4b6081-c070-45eb-9210-c827c36dd6b8>

**Definitions**  
LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (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)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC 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)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. 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.

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. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



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