

Prepared for:  
**Bent Paddle Brewing Co**  
1912 W Michigan St.  
Duluth, MN USA 55806

## C&C - Tommie Palmer

Batch ID or Lot Number: <b>071923-TP</b>	Test: <b>Potency</b>	Reported: <b>28Jul2023</b>	USDA License: N/A
Matrix: Unit	Test ID: T000250829	Started: 28Jul2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 28Jul2023	Status: N/A

## Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.178	0.661	ND	ND	# of Servings = 1, Sample Weight=473g
Cannabichromenic Acid (CBCA)	0.163	0.605	ND	ND	
Cannabidiol (CBD)	0.610	1.674	ND	ND	
Cannabidiolic Acid (CBDA)	0.625	1.717	ND	ND	
Cannabidivarin (CBDV)	0.144	0.396	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.261	0.716	ND	ND	
Cannabigerol (CBG)	0.101	0.375	ND	ND	
Cannabigerolic Acid (CBGA)	0.422	1.569	ND	ND	
Cannabinol (CBN)	0.132	0.490	ND	ND	
Cannabinolic Acid (CBNA)	0.288	1.071	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.503	1.870	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.457	1.698	5.140	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.405	1.504	ND	ND	
Tetrahydrocannabivarin (THCV)	0.092	0.341	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.357	1.327	ND	ND	
<b>Total Cannabinoids</b>			<b>5.140</b>	<b>0.00</b>	
Total Potential THC			5.140	0.00	
Total Potential CBD			ND	ND	

## Final Approval



Karen Winternheimer  
28Jul2023  
02:03:00 PM MDT

PREPARED BY / DATE



Sam Smith  
28Jul2023  
02:05:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/1a41f3b4-f1e3-410f-90bb-b8d4855f7441>

**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.



Cert #4329.02  
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1912 W Michigan St.  
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## C&C High Tea - Tommie Palmer

Batch ID or Lot Number: <b>071923-TP</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 2 of 4
Reported: <b>17Jul2023</b>	Started: 17Jul2023	Received: 17Jul2023	


### Pesticides


Test ID: T000249338

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	255 - 2854	ND		Malathion	290 - 2681	ND
Acephate	35 - 2872	ND		Metalaxyl	40 - 2674	ND
Acetamiprid	36 - 2787	ND		Methiocarb	41 - 2707	ND
Azoxystrobin	42 - 2668	ND		Methomyl	36 - 2844	ND
Bifenazate	40 - 2672	ND		MGK 264 1	179 - 1660	ND
Boscalid	39 - 2805	ND		MGK 264 2	111 - 1107	ND
Carbaryl	45 - 2743	ND		Myclobutanil	36 - 2673	ND
Carbofuran	41 - 2710	ND		Naled	52 - 2759	ND
Chlorantraniliprole	42 - 2703	ND		Oxamyl	36 - 2840	ND
Chlorpyrifos	40 - 2737	ND		Paclobutrazol	45 - 2705	ND
Clofentezine	281 - 2745	ND		Permethrin	302 - 2697	ND
Diazinon	287 - 2689	ND		Phosmet	42 - 2662	ND
Dichlorvos	256 - 2837	ND		Prophos	282 - 2729	ND
Dimethoate	36 - 2774	ND		Propoxur	42 - 2720	ND
E-Fenpyroximate	348 - 2702	ND		Pyridaben	298 - 2724	ND
Etofenprox	40 - 2694	ND		Spinosad A	30 - 2105	ND
Etoxazole	304 - 2711	ND		Spinosad D	66 - 669	ND
Fenoxycarb	14 - 2677	ND		Spiromesifen	241 - 2719	ND
Fipronil	35 - 2756	ND		Spirotetramat	300 - 2696	ND
Flonicamid	42 - 2861	ND		Spiroxamine 1	18 - 1175	ND
Fludioxonil	299 - 2725	ND		Spiroxamine 2	20 - 1523	ND
Hexythiazox	41 - 2716	ND		Tebuconazole	332 - 2650	ND
Imazalil	286 - 2755	ND		Thiacloprid	36 - 2778	ND
Imidacloprid	38 - 2799	ND		Thiamethoxam	42 - 2801	ND
Kresoxim-methyl	27 - 2685	ND		Trifloxystrobin	43 - 2705	ND

### Final Approval

  
Sam Smith  
20Jul2023  
07:56:00 AM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
20Jul2023  
07:59:00 AM MDT  
APPROVED BY / DATE

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## Microbial Contaminants

Test ID: T000249339

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	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 20Jul2023 12:06:00 PM MDT		Brianne Maillot 20Jul2023 12:13:00 PM MDT
PREPARED BY / DATE		APPROVED BY / DATE	


## Heavy Metals

Test ID: T000249340

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.71	ND	
Cadmium	0.05 - 4.68	ND	
Mercury	0.05 - 4.50	ND	
Lead	0.05 - 4.53	ND	

### Final Approval

	Sam Smith 20Jul2023 02:53:00 PM MDT		Karen Winternheimer 20Jul2023 02:59:00 PM MDT
PREPARED BY / DATE		APPROVED BY / DATE	

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<https://results.botanacor.com/api/v1/coas/uuid/541f1c60-b0d4-4bee-8a81-c134f8712c59>

### 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.

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