

Prepared for:

**Bent Paddle Brewing Co**

1912 W Michigan St.

Duluth, MN USA 55806

## THC+ Mango Tangerine

Batch ID or Lot Number: <b>060823</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: <b>07Jun2023</b>	Started: 07Jun2023	Received: 07Jun2023	


### Cannabinoids


Test ID: T000245860

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.176	0.521	<LOQ	<LOQ	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.161	0.476	ND	ND	
Cannabidiol (CBD)	0.450	1.326	5.810	0.00	
Cannabidiolic Acid (CBDA)	0.462	1.360	ND	ND	
Cannabidivarin (CBDV)	0.106	0.314	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.193	0.568	ND	ND	
Cannabigerol (CBG)	0.100	0.296	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.417	1.236	ND	ND	
Cannabinol (CBN)	0.130	0.386	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.284	0.843	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.497	1.473	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.451	1.337	5.850	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.400	1.185	ND	ND	
Tetrahydrocannabivarin (THCV)	0.091	0.269	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.352	1.045	ND	ND	
<b>Total Cannabinoids</b>			<b>11.660</b>	<b>0.00</b>	
Total Potential THC			5.850	0.00	
Total Potential CBD			5.810	0.00	

### Final Approval

 Karen Winternheimer  
07Jun2023  
02:34:00 PM MDT  
PREPARED BY / DATE

 Sam Smith  
07Jun2023  
02:36:00 PM MDT  
APPROVED BY / DATE

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### Pesticides


Test ID: T000245861

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	331 - 2619	ND		Malathion	280 - 2712	ND
Acephate	40 - 2714	ND		Metalaxyl	42 - 2714	ND
Acetamiprid	40 - 2702	ND		Methiocarb	42 - 2645	ND
Azoxystrobin	46 - 2711	ND		Methomyl	41 - 2736	ND
Bifenazate	42 - 2692	ND		MGK 264 1	174 - 1684	ND
Boscalid	41 - 2623	ND		MGK 264 2	107 - 1086	ND
Carbaryl	39 - 2708	ND		Myclobutanil	47 - 2661	ND
Carbofuran	42 - 2712	ND		Naled	40 - 2731	ND
Chlorantraniliprole	42 - 2644	ND		Oxamyl	41 - 2722	ND
Chlorpyrifos	44 - 2683	ND		Paclobutrazol	41 - 2712	ND
Clofentezine	279 - 2741	ND		Permethrin	308 - 2721	ND
Diazinon	282 - 2710	ND		Phosmet	47 - 2707	ND
Dichlorvos	268 - 2731	ND		Prophos	294 - 2641	ND
Dimethoate	42 - 2690	ND		Propoxur	42 - 2703	ND
E-Fenpyroximate	281 - 2706	ND		Pyridaben	288 - 2659	ND
Etofenprox	42 - 2618	ND		Spinosad A	30 - 2082	ND
Etoxazole	291 - 2665	ND		Spinosad D	62 - 654	ND
Fenoxycarb	31 - 2764	ND		Spiromesifen	252 - 2670	ND
Fipronil	45 - 2634	ND		Spirotetramat	270 - 2756	ND
Flonicamid	55 - 2716	ND		Spiroxamine 1	18 - 1158	ND
Fludioxonil	273 - 2638	ND		Spiroxamine 2	22 - 1479	ND
Hexythiazox	35 - 2731	ND		Tebuconazole	265 - 2723	ND
Imazalil	280 - 2760	ND		Thiacloprid	42 - 2694	ND
Imidacloprid	36 - 2711	ND		Thiamethoxam	41 - 2745	ND
Kresoxim-methyl	46 - 2763	ND		Trifloxystrobin	44 - 2702	ND

### Final Approval

  
 Sam Smith  
 09Jun2023  
 01:23:00 PM MDT  
 PREPARED BY / DATE

  
 Karen Winternheimer  
 09Jun2023  
 01:29:00 PM MDT  
 APPROVED BY / DATE

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Reported: <b>07Jun2023</b>	Started: 07Jun2023	Received: 07Jun2023	

## Microbial Contaminants

Test ID: T000245862

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



Brett Hudson  
12Jun2023  
03:06:00 PM MDT



Brianne Maillot  
12Jun2023  
04:58:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

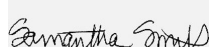
## Heavy Metals

Test ID: T000245863

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.40	ND	
Cadmium	0.05 - 4.54	ND	
Mercury	0.05 - 4.70	ND	
Lead	0.05 - 4.91	ND	

### Final Approval



Sam Smith  
14Jun2023  
09:46:00 AM MDT



Karen Winternheimer  
14Jun2023  
09:48:00 AM MDT

PREPARED BY / DATE

APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/875ba5fc-43b9-49d3-8f8d-016330c7847c>

**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](#).



Cert #4329.02  
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