

Prepared for:

**Bent Paddle Brewing Co**

1912 W Michigan St.

Duluth, MN USA 55806

## THC+ Mango Tangerine

Batch ID or Lot Number: <b>121322</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: <b>19Dec2022</b>	Started: 19Dec2022	Received: 19Dec2022	

### Cannabinoids

Test ID: T000230688

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.146	0.493	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.134	0.451	ND	ND	
Cannabidiol (CBD)	0.411	1.321	5.570	0.00	
Cannabidiolic Acid (CBDA)	0.421	1.355	ND	ND	
Cannabidivarin (CBDV)	0.097	0.313	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.176	0.565	ND	ND	
Cannabigerol (CBG)	0.083	0.280	ND	ND	
Cannabigerolic Acid (CBGA)	0.347	1.171	ND	ND	
Cannabinol (CBN)	0.108	0.365	ND	ND	
Cannabinolic Acid (CBNA)	0.237	0.799	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.414	1.395	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.376	1.267	5.280	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.333	1.123	ND	ND	
Tetrahydrocannabivarin (THCV)	0.076	0.255	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.294	0.990	ND	ND	
<b>Total Cannabinoids</b>			<b>10.850</b>	<b>0.00</b>	
Total Potential THC			5.280	0.00	
Total Potential CBD			5.570	0.00	

### Final Approval

 Sam Smith  
19Dec2022  
01:40:00 PM MST

PREPARED BY / DATE

 Karen Winternheimer  
19Dec2022  
01:49:00 PM MST

APPROVED BY / DATE

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## Microbial Contaminants

Test ID: T000230690

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  
22Dec2022  
10:07:00 AM MST  
PREPARED BY / DATE

  
Phillip Travisano  
22Dec2022  
11:06:00 AM MST  
APPROVED BY / DATE

Prepared for:  
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### Pesticides

Test ID: T000230689

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	292 - 2645	ND		Malathion	281 - 2712	ND
Acephate	1 - 2759	ND		Metalaxyl	38 - 2730	ND
Acetamiprid	41 - 2737	ND		Methiocarb	42 - 2746	ND
Azoxystrobin	42 - 2721	ND		Methomyl	43 - 2756	ND
Bifenazate	43 - 2711	ND		MGK 264 1	190 - 1588	ND
Boscalid	45 - 2703	ND		MGK 264 2	122 - 1133	ND
Carbaryl	43 - 2731	ND		Myclobutanil	51 - 2724	ND
Carbofuran	41 - 2721	ND		Naled	58 - 2745	ND
Chlorantraniliprole	44 - 2788	ND		Oxamyl	40 - 2728	ND
Chlorpyrifos	39 - 2722	ND		Paclobutrazol	40 - 2725	ND
Clofentezine	266 - 2713	ND		Permethrin	305 - 2650	ND
Diazinon	282 - 2714	ND		Phosmet	40 - 2697	ND
Dichlorvos	262 - 2765	ND		Prophos	281 - 2758	ND
Dimethoate	37 - 2726	ND		Propoxur	38 - 2705	ND
E-Fenpyroximate	281 - 2736	ND		Pyridaben	286 - 2700	ND
Etofenprox	42 - 2709	ND		Spinosad A	33 - 2235	ND
Etoazole	302 - 2710	ND		Spinosad D	48 - 495	ND
Fenoxycarb	44 - 2739	ND		Spiromesifen	275 - 2731	ND
Fipronil	44 - 2757	ND		Spirotetramat	285 - 2732	ND
Flonicamid	55 - 2649	ND		Spiroxamine 1	18 - 1177	ND
Fludioxonil	281 - 2733	ND		Spiroxamine 2	22 - 1559	ND
Hexythiazox	42 - 2752	ND		Tebuconazole	287 - 2758	ND
Imazalil	268 - 2735	ND		Thiacloprid	43 - 2722	ND
Imidacloprid	42 - 2704	ND		Thiamethoxam	46 - 2760	ND
Kresoxim-methyl	43 - 2761	ND		Trifloxystrobin	41 - 2732	ND

### Final Approval

  
Karen Winternheimer  
24Dec2022  
05:41:00 PM MST  
PREPARED BY / DATE

  
Sam Smith  
24Dec2022  
05:43:00 PM MST  
APPROVED BY / DATE

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## Heavy Metals

Test ID: T000230691  
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.27	ND	
Cadmium	0.04 - 4.45	ND	
Mercury	0.05 - 4.51	ND	
Lead	0.04 - 4.18	ND	

## Final Approval

  
Samantha Simms  
27Dec2022  
02:30:00 PM MST

PREPARED BY / DATE

  
Karen Winternheimer  
27Dec2022  
02:32:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/abffd14f-1aca-4a13-b69a-948bd52509d1>

**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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