

Prepared for:

**Bent Paddle Brewing Co**

1912 W Michigan St.  
Duluth, MN USA 55806

## THC+ - Mango Tangerine

Batch ID or Lot Number: <b>111822</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: <b>22Nov2022</b>	Started: 21Nov2022	Received: 21Nov2022	

### Heavy Metals

Test ID: T000228355

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.03 - 3.40	ND	
Cadmium	0.03 - 3.30	ND	
Mercury	0.03 - 3.43	ND	
Lead	0.03 - 3.03	ND	

### Final Approval

  
Sam Smith  
22Nov2022  
10:39:00 AM MST

PREPARED BY / DATE

  
Karen Winternheimer  
22Nov2022  
10:43:00 AM MST

APPROVED BY / DATE

### Cannabinoids

Test ID: T000228352

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.146	0.510	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.133	0.466	ND	ND	
Cannabidiol (CBD)	0.497	1.316	5.260	0.00	
Cannabidiolic Acid (CBDA)	0.510	1.350	ND	ND	
Cannabidivarin (CBDV)	0.118	0.311	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.213	0.563	ND	ND	
Cannabigerol (CBG)	0.083	0.289	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.345	1.210	ND	ND	
Cannabinol (CBN)	0.108	0.378	ND	ND	
Cannabinolic Acid (CBNA)	0.236	0.826	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.412	1.442	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.374	1.309	5.160	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.331	1.160	ND	ND	
Tetrahydrocannabivarin (THCV)	0.075	0.263	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.292	1.023	ND	ND	
<b>Total Cannabinoids</b>			<b>10.420</b>	<b>0.00</b>	
Total Potential THC			5.160	0.00	
Total Potential CBD			5.260	0.00	

### Final Approval

  
Sam Smith  
22Nov2022  
02:57:00 PM MST

PREPARED BY / DATE

  
Karen Winternheimer  
22Nov2022  
02:59:00 PM MST

APPROVED BY / DATE

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## Microbial Contaminants

Test ID: T000228354

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  
25Nov2022  
10:47:00 AM MST  
PREPARED BY / DATE

  
Brianne Maillot  
25Nov2022  
01:59:00 PM MST  
APPROVED BY / DATE

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### Pesticides

Test ID: T000228353

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	305 - 2676	ND		Malathion	301 - 2750	ND
Acephate	41 - 2759	ND		Metalaxyl	47 - 2739	ND
Acetamiprid	44 - 2746	ND		Methiocarb	43 - 2743	ND
Azoxystrobin	46 - 2724	ND		Methomyl	43 - 2753	ND
Bifenazate	45 - 2712	ND		MGK 264 1	181 - 1606	ND
Boscalid	45 - 2751	ND		MGK 264 2	120 - 1149	ND
Carbaryl	43 - 2735	ND		Myclobutanil	46 - 2762	ND
Carbofuran	44 - 2736	ND		Naled	48 - 2769	ND
Chlorantraniliprole	51 - 2753	ND		Oxamyl	42 - 2740	ND
Chlorpyrifos	46 - 2754	ND		Paclobutrazol	42 - 2743	ND
Clofentezine	286 - 2770	ND		Permethrin	240 - 2787	ND
Diazinon	283 - 2744	ND		Phosmet	47 - 2723	ND
Dichlorvos	312 - 2736	ND		Prophos	300 - 2744	ND
Dimethoate	44 - 2728	ND		Propoxur	44 - 2735	ND
E-Fenpyroximate	289 - 2786	ND		Pyridaben	291 - 2703	ND
Etofenprox	46 - 2791	ND		Spinosad A	34 - 2246	ND
Etoazole	305 - 2753	ND		Spinosad D	51 - 504	ND
Fenoxycarb	44 - 2762	ND		Spiromesifen	282 - 2763	ND
Fipronil	54 - 2891	ND		Spirotetramat	285 - 2787	ND
Flonicamid	48 - 2696	ND		Spiroxamine 1	17 - 1182	ND
Fludioxonil	300 - 2724	ND		Spiroxamine 2	24 - 1566	ND
Hexythiazox	43 - 2798	ND		Tebuconazole	287 - 2758	ND
Imazalil	269 - 2784	ND		Thiacloprid	44 - 2743	ND
Imidacloprid	47 - 2761	ND		Thiamethoxam	41 - 2770	ND
Kresoxim-methyl	48 - 2780	ND		Trifloxystrobin	45 - 2763	ND

### Final Approval

  
Sam Smith  
30Nov2022  
12:52:00 PM MST  
PREPARED BY / DATE

  
Karen Winternheimer  
30Nov2022  
12:56:00 PM MST  
APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/e594084f-62db-4a85-a537-5704ac63f6da>

**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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