

Prepared for:

**Bent Paddle Brewing Co**

1912 W Michigan St.  
Duluth, MN USA 55806

## CBD+ Passion Fruit Orange Guava

Batch ID or Lot Number: <b>112122</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 3
Reported: <b>27Nov2022</b>	Started: 23Nov2022	Received: 22Nov2022	


### Heavy Metals

Test ID: T000228484


Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 3.67	ND	
Cadmium	0.03 - 3.33	ND	
Mercury	0.03 - 3.45	ND	
Lead	0.03 - 3.13	ND	

### Final Approval

  
Sam Smith  
27Nov2022  
08:34:00 AM MST

PREPARED BY / DATE

  
Karen Winternheimer  
27Nov2022  
08:47:00 AM MST

APPROVED BY / DATE


### Cannabinoids

Test ID: T000228481


Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.165	0.504	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.151	0.461	ND	ND	
Cannabidiol (CBD)	0.463	1.316	23.570	0.10	
Cannabidiolic Acid (CBDA)	0.475	1.350	ND	ND	
Cannabidivarin (CBDV)	0.110	0.311	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.198	0.563	ND	ND	
Cannabigerol (CBG)	0.094	0.286	ND	ND	
Cannabigerolic Acid (CBGA)	0.392	1.197	ND	ND	
Cannabinol (CBN)	0.122	0.374	ND	ND	
Cannabinolic Acid (CBNA)	0.268	0.817	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.467	1.426	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.424	1.295	2.380	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.376	1.148	ND	ND	
Tetrahydrocannabivarin (THCV)	0.085	0.261	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.332	1.012	ND	ND	
<b>Total Cannabinoids</b>			<b>25.950</b>	<b>0.10</b>	
Total Potential THC			2.380	0.00	
Total Potential CBD			23.570	0.10	

### Final Approval

  
Sam Smith  
29Nov2022  
11:04:00 AM MST

PREPARED BY / DATE

  
Karen Winternheimer  
29Nov2022  
11:07:00 AM MST

APPROVED BY / DATE

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### Pesticides


Test ID: T000228482

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
Etoxazole	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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## CBD+ Passion Fruit Orange Guava

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## Microbial Contaminants

Test ID: T000228483

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 01Dec2022 03:15:00 PM MST PREPARED BY / DATE	 Brett Hudson 02Dec2022 05:14:00 PM MST APPROVED BY / DATE
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<https://results.botanacor.com/api/v1/coas/uuid/6f167f8b-0252-40ea-87a5-f94dfd4e5bcd>

**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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