

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.

Duluth, MN USA 55806

CBD+ Passion Fruit Orange Guava

Batch ID or Lot Number: 082322	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: 25Aug2022	Started: 25Aug2022	Received: 23Aug2022	

Cannabinoids

Test ID: T000219140

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.140	0.424	0.410	0.00	# of Servings = 1, Sample Weight=332g
Cannabichromenic Acid (CBCA)	0.128	0.388	ND	ND	
Cannabidiol (CBD)	0.313	1.074	24.030	0.10	
Cannabidiolic Acid (CBDA)	0.321	1.101	ND	ND	
Cannabidivarin (CBDV)	0.074	0.254	0.100	0.00	
Cannabidivarinic Acid (CBDVA)	0.134	0.459	ND	ND	
Cannabigerol (CBG)	0.079	0.241	0.210	0.00	
Cannabigerolic Acid (CBGA)	0.331	1.007	ND	ND	
Cannabinol (CBN)	0.103	0.314	ND	ND	
Cannabinolic Acid (CBNA)	0.226	0.687	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.395	1.200	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.358	1.090	2.110	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.317	0.965	ND	ND	
Tetrahydrocannabivarin (THCV)	0.072	0.219	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.280	0.852	ND	ND	
Total Cannabinoids			26.860	0.08	
Total Potential THC			2.110	0.01	
Total Potential CBD			24.030	0.07	

Final Approval

 Sam Smith
25Aug2022
03:06:00 PM MDT

PREPARED BY / DATE

 Jacob Miller
25Aug2022
03:09:00 PM MDT

APPROVED BY / DATE

Heavy Metals

Test ID: T000219143

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.42	ND	
Cadmium	0.05 - 4.75	ND	
Mercury	0.05 - 4.53	ND	
Lead	0.05 - 4.71	ND	

Final Approval

 Sam Smith
26Aug2022
11:47:00 AM MDT

PREPARED BY / DATE

 Courtney Richards
26Aug2022
02:28:00 PM MDT

APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000219142

Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval


 Brianne Maillot
 27Aug2022
 03:10:00 PM MDT
 PREPARED BY / DATE


 Brett Hudson
 28Aug2022
 02:54:00 PM MDT
 APPROVED BY / DATE

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Pesticides

Test ID: T000219141

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	326 - 2612	ND		Malathion	278 - 2825	ND
Acephate	52 - 2697	ND		Metalaxyl	38 - 2779	ND
Acetamiprid	44 - 2694	ND		Methiocarb	48 - 2694	ND
Azoxystrobin	38 - 2757	ND		Methomyl	50 - 2686	ND
Bifenazate	48 - 2758	ND		MGK 264 1	139 - 1646	ND
Boscalid	57 - 2681	ND		MGK 264 2	116 - 1153	ND
Carbaryl	44 - 2755	ND		Myclobutanil	51 - 2644	ND
Carbofuran	40 - 2758	ND		Naled	51 - 2682	ND
Chlorantraniliprole	55 - 2676	ND		Oxamyl	45 - 2670	ND
Chlorpyrifos	46 - 2802	ND		Paclobutrazol	40 - 2792	ND
Clofentezine	276 - 2832	ND		Permethrin	330 - 2715	ND
Diazinon	289 - 2832	ND		Phosmet	40 - 2848	ND
Dichlorvos	308 - 2682	ND		Prophos	314 - 2690	ND
Dimethoate	47 - 2672	ND		Propoxur	41 - 2754	ND
E-Fenpyroximate	300 - 2780	ND		Pyridaben	290 - 2793	ND
Etofenprox	49 - 2713	ND		Spinosad A	35 - 2268	ND
Etoxazole	295 - 2780	ND		Spinosad D	62 - 488	ND
Fenoxycarb	42 - 2814	ND		Spiromesifen	307 - 2754	ND
Fipronil	2 - 2763	ND		Spirotetramat	333 - 2721	ND
Flonicamid	46 - 2720	ND		Spiroxamine 1	24 - 1156	ND
Fludioxonil	341 - 2606	ND		Spiroxamine 2	32 - 1528	ND
Hexythiazox	48 - 2764	ND		Tebuconazole	271 - 2876	ND
Imazalil	297 - 2797	ND		Thiacloprid	39 - 2704	ND
Imidacloprid	46 - 2646	ND		Thiamethoxam	43 - 2740	ND
Kresoxim-methyl	52 - 2807	ND		Trifloxystrobin	38 - 2805	ND

Final Approval


Sam Smith
29Aug2022
05:25:00 PM MDT
PREPARED BY / DATE


Daniel Weidensaul
29Aug2022
05:28:00 PM MDT
APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/7d8b2afb-8d2d-4ac6-95f0-df16077fe935>

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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU.

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