

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.

Duluth, MN USA 55806

CBD+ Passion Fruit Orange Mango

Batch ID or Lot Number: 083122	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: 02Sep2022	Started: 02Sep2022	Received: 01Sep2022	

Cannabinoids

Test ID: T000220117

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.173	0.493	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.158	0.451	ND	ND	
Cannabidiol (CBD)	0.436	1.289	30.950	0.10	
Cannabidiolic Acid (CBDA)	0.447	1.322	ND	ND	
Cannabidivarin (CBDV)	0.103	0.305	0.210	0.00	
Cannabidivarinic Acid (CBDVA)	0.187	0.552	ND	ND	
Cannabigerol (CBG)	0.098	0.280	ND	ND	
Cannabigerolic Acid (CBGA)	0.411	1.171	ND	ND	
Cannabinol (CBN)	0.128	0.365	ND	ND	
Cannabinolic Acid (CBNA)	0.280	0.799	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.489	1.395	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.444	1.267	2.110	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.394	1.123	ND	ND	
Tetrahydrocannabivarin (THCV)	0.089	0.255	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.347	0.990	ND	ND	
Total Cannabinoids			33.270	0.09	
Total Potential THC			2.110	0.01	
Total Potential CBD			30.950	0.09	

Final Approval


Daniel Weidensaul
02Sep2022
05:43:00 PM MDT

PREPARED BY / DATE


Karen Winternheimer
02Sep2022
05:47:00 PM MDT

APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000220119

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



Brett Hudson
04Sep2022
01:10:00 PM MDT



Brianne Maillot
05Sep2022
10:52:00 AM MDT

PREPARED BY / DATE

APPROVED BY / DATE

Heavy Metals

Test ID: T000220120

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.41	ND	
Cadmium	0.04 - 4.33	ND	
Mercury	0.04 - 4.38	ND	
Lead	0.04 - 3.60	ND	

Final Approval



Sam Smith
07Sep2022
02:47:00 PM MDT



Daniel Weidensaul
07Sep2022
02:51:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

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Pesticides

Test ID: T000220118

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	281 - 2571	ND		Malathion	289 - 2751	ND
Acephate	41 - 2765	ND		Metalaxyl	43 - 2733	ND
Acetamiprid	39 - 2724	ND		Methiocarb	42 - 2789	ND
Azoxystrobin	42 - 2765	ND		Methomyl	38 - 2770	ND
Bifenazate	42 - 2736	ND		MGK 264 1	153 - 1641	ND
Boscalid	40 - 2773	ND		MGK 264 2	120 - 1143	ND
Carbaryl	41 - 2713	ND		Myclobutanil	34 - 2760	ND
Carbofuran	40 - 2721	ND		Naled	46 - 2700	ND
Chlorantraniliprole	41 - 2796	ND		Oxamyl	39 - 2812	ND
Chlorpyrifos	65 - 2708	ND		Paclobutrazol	46 - 2695	ND
Clofentezine	284 - 2738	ND		Permethrin	281 - 2675	ND
Diazinon	284 - 2783	ND		Phosmet	40 - 2730	ND
Dichlorvos	286 - 2804	ND		Prophos	286 - 2783	ND
Dimethoate	42 - 2742	ND		Propoxur	40 - 2710	ND
E-Fenpyroximate	291 - 2699	ND		Pyridaben	290 - 2737	ND
Etofenprox	45 - 2685	ND		Spinosad A	35 - 2247	ND
Etoxazole	297 - 2677	ND		Spinosad D	48 - 510	ND
Fenoxycarb	41 - 2753	ND		Spiromesifen	269 - 2734	ND
Fipronil	44 - 2789	ND		Spirotetramat	279 - 2776	ND
Fonicamid	42 - 2774	ND		Spiroxamine 1	18 - 1184	ND
Fludioxonil	288 - 2766	ND		Spiroxamine 2	22 - 1581	ND
Hexythiazox	41 - 2742	ND		Tebuconazole	282 - 2786	ND
Imazalil	272 - 2827	ND		Thiacloprid	42 - 2742	ND
Imidacloprid	42 - 2764	ND		Thiamethoxam	43 - 2784	ND
Kresoxim-methyl	43 - 2824	ND		Trifloxystrobin	43 - 2762	ND

Final Approval


 Karen Winternheimer
 08Sep2022
 03:00:00 PM MDT
 PREPARED BY / DATE


 Sam Smith
 08Sep2022
 03:08:00 PM MDT
 APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/223786d4-26d7-4a22-8c97-60b203bc729f>

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.

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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