

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.

Duluth, MN USA 55806

CBD+ Passion Fruit Orange Guava

Batch ID or Lot Number: 011723	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 3
Reported: 26Jan2023	Started: 25Jan2023	Received: 20Jan2023	


Cannabinoids - Colorado Compliance


Test ID: T000233165

Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.145	0.462	ND	ND	# of Servings = 1 Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.133	0.423	ND	ND	
Cannabidiol (CBD)	0.454	1.331	34.463	0.10	
Cannabidiolic Acid (CBDA)	0.466	1.365	ND	ND	
Cannabidivarin (CBDV)	0.107	0.315	0.417	0.00	
Cannabidivarinic Acid (CBDVA)	0.194	0.569	ND	ND	
Cannabigerol (CBG)	0.082	0.262	ND	ND	
Cannabigerolic Acid (CBGA)	0.345	1.097	ND	ND	
Cannabinol (CBN)	0.108	0.342	ND	ND	
Cannabinolic Acid (CBNA)	0.235	0.749	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.411	1.307	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.373	1.187	2.344	0.01	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.330	1.052	ND	ND	
Tetrahydrocannabivarin (THCV)	0.075	0.239	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.291	0.928	ND	ND	
Total Cannabinoids			37.224	0.11	
Total Potential THC			2.344	0.01	
Total Potential CBD			34.463	0.10	

Final Approval


Sam Smith
26Jan2023
01:51:00 PM MST
PREPARED BY / DATE


Karen Winternheimer
26Jan2023
01:57:00 PM MST
APPROVED BY / DATE


Heavy Metals - Colorado Compliance

Test ID: T000233168

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.42	ND	
Cadmium	0.04 - 4.32	ND	
Mercury	0.04 - 4.30	ND	
Lead	0.05 - 5.12	ND	

Final Approval


Sam Smith
26Jan2023
09:09:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
26Jan2023
09:18:00 AM MST
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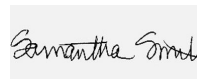
Pesticides

Test ID: T000233166
Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	309 - 2713	ND		Malathion	292 - 2720	ND
Acephate	38 - 2763	ND		Metalaxyl	42 - 2705	ND
Acetamiprid	40 - 2783	ND		Methiocarb	44 - 2669	ND
Azoxystrobin	42 - 2728	ND		Methomyl	40 - 2764	ND
Bifenazate	43 - 2678	ND		MGK 264 1	180 - 1636	ND
Boscalid	42 - 2783	ND		MGK 264 2	120 - 1144	ND
Carbaryl	42 - 2754	ND		Myclobutanil	46 - 2718	ND
Carbofuran	42 - 2725	ND		Naled	42 - 2796	ND
Chlorantraniliprole	39 - 2763	ND		Oxamyl	39 - 2775	ND
Chlorpyrifos	47 - 2762	ND		Paclobutrazol	39 - 2732	ND
Clofentezine	268 - 2765	ND		Permethrin	274 - 2747	ND
Diazinon	284 - 2748	ND		Phosmet	40 - 2724	ND
Dichlorvos	300 - 2805	ND		Prophos	291 - 2708	ND
Dimethoate	39 - 2760	ND		Propoxur	43 - 2718	ND
E-Fenpyroximate	271 - 2753	ND		Pyridaben	282 - 2742	ND
Etofenprox	45 - 2751	ND		Spinosad A	32 - 2242	ND
Etoxazole	282 - 2727	ND		Spinosad D	47 - 503	ND
Fenoxycarb	44 - 2747	ND		Spiromesifen	281 - 2741	ND
Fipronil	54 - 2760	ND		Spirotetramat	289 - 2735	ND
Fonicamid	45 - 2832	ND		Spiroxamine 1	17 - 1188	ND
Fludioxonil	312 - 2703	ND		Spiroxamine 2	23 - 1540	ND
Hexythiazox	42 - 2778	ND		Tebuconazole	278 - 2733	ND
Imazalil	289 - 2706	ND		Thiacloprid	40 - 2775	ND
Imidacloprid	43 - 2784	ND		Thiamethoxam	41 - 2796	ND
Kresoxim-methyl	41 - 2759	ND		Trifloxystrobin	43 - 2756	ND

Final Approval


Karen Winterheimer
27Jan2023
08:03:00 AM MST
PREPARED BY / DATE


Sam Smith
27Jan2023
08:06:00 AM MST
APPROVED BY / DATE

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Microbial Contaminants - Colorado Compliance

Test ID: T000233167
Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10 ⁰ CFU/25g	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
30Jan2023
01:55:00 PM MST


Brianne Maillot
31Jan2023
06:47:00 PM MST

PREPARED BY / DATE

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/f7e5c699-7c23-4f2a-ae55-2308a9b4410f>

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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