

Prepared for:
Bent Paddle Brewing Co
1912 W Michigan St.
Duluth, MN USA 55806


Puff - Dragonfruit Cloudberry

Batch ID or Lot Number: 022024-PCB	Test: Potency	Reported: 21Feb2024	USDA License: N/A
Matrix: Unit	Test ID: T000271665	Started: 20Feb2024	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 21Feb2024	Status: N/A

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.143	0.488	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.131	0.446	ND	ND	
Cannabidiol (CBD)	0.439	1.265	<LOQ	<LOQ	
Cannabidiolic Acid (CBDA)	0.450	1.298	ND	ND	
Cannabidivarin (CBDV)	0.104	0.299	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.188	0.541	ND	ND	
Cannabigerol (CBG)	0.081	0.277	ND	ND	
Cannabigerolic Acid (CBGA)	0.340	1.158	ND	ND	
Cannabinol (CBN)	0.106	0.361	ND	ND	
Cannabinolic Acid (CBNA)	0.232	0.790	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.405	1.379	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.368	1.253	9.550	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.326	1.110	ND	ND	
Tetrahydrocannabivarin (THCV)	0.074	0.252	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.287	0.979	ND	ND	
Total Cannabinoids			9.550	0.00	
Total Potential THC			9.550	0.00	
Total Potential CBD			0.000	0.00	

Final Approval



Karen Winternheimer
21Feb2024
03:45:00 PM MST

PREPARED BY / DATE



Sam Smith
21Feb2024
03:46:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/979a299f-903b-4fbd-9c63-bd8a2958949e>

Definitions

% = % (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)).

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 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.



Cert #4329.02
979a299f903b4fbd9c63bd8a2958949e.2

Prepared for:
Bent Paddle Brewing Co
1912 W Michigan St.
Duluth, MN USA 55806

Puff - Dragonfruit Cloudberry

Batch ID or Lot Number: 022024-PCB	Test, Test ID and Methods: Various	Matrix: Unit	Page 2 of 4
Reported: 16Feb2024	Started: 16Feb2024	Received: 16Feb2024	

Microbial Contaminants

Test ID: T000271094

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

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	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


Brianne Maillot
19Feb2024
09:57:00 AM MST
PREPARED BY / DATE


Eden Thompson-Wright
19Feb2024
02:10:00 PM MST
APPROVED BY / DATE


Heavy Metals


Test ID: T000271095

Methods: TM19 (ICP-MS): Heavy Metals

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 5.10	ND	
Cadmium	0.05 - 4.91	ND	
Mercury	0.05 - 5.15	ND	
Lead	0.05 - 5.11	ND	

Final Approval


Samantha Smith
20Feb2024
09:38:00 AM MST
PREPARED BY / DATE


Samantha Smith
20Feb2024
09:43:00 AM MST
APPROVED BY / DATE

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.
Duluth, MN USA 55806

Puff - Dragonfruit Cloudberry

Batch ID or Lot Number: 022024-PCB	Test, Test ID and Methods: Various	Matrix: Unit	Page 3 of 4
Reported: 16Feb2024	Started: 16Feb2024	Received: 16Feb2024	

Pesticides


Test ID: T000271093


Methods: TM17

(LC-QQ LC MS/MS)

	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	298 - 2748	ND	Malathion	288 - 2690	ND
Acephate	40 - 2730	ND	Metalaxyl	41 - 2695	ND
Acetamiprid	41 - 2685	ND	Methiocarb	42 - 2685	ND
Azoxystrobin	44 - 2703	ND	Methomyl	41 - 2765	ND
Bifenazate	43 - 2708	ND	MGK 264 1	159 - 1637	ND
Boscalid	43 - 2663	ND	MGK 264 2	111 - 1064	ND
Carbaryl	42 - 2688	ND	Myclobutanil	36 - 2665	ND
Carbofuran	42 - 2688	ND	Naled	42 - 2657	ND
Chlorantranilprole	45 - 2679	ND	Oxamyl	41 - 2737	ND
Chlorpyrifos	49 - 2741	ND	Paclobutrazol	44 - 2728	ND
Clofentezine	272 - 2696	ND	Permethrin	290 - 2776	ND
Diazinon	290 - 2697	ND	Phosmet	40 - 2577	ND
Dichlorvos	266 - 2739	ND	Prophos	282 - 2675	ND
Dimethoate	42 - 2678	ND	Propoxur	42 - 2694	ND
E-Fenpyroximate	278 - 2800	ND	Pyridaben	297 - 2691	ND
Etofenprox	43 - 2717	ND	Spinosad A	34 - 2075	ND
Etoazole	293 - 2631	ND	Spinosad D	67 - 658	ND
Fenoxycarb	42 - 2698	ND	Spiromesifen	268 - 2692	ND
Fipronil	37 - 2786	ND	Spirotetramat	285 - 2786	ND
Flonicamid	42 - 2769	ND	Spiroxamine 1	16 - 1030	ND
Fludioxonil	267 - 2685	ND	Spiroxamine 2	24 - 1613	ND
Hexythiazox	42 - 2738	ND	Tebuconazole	290 - 2686	ND
Imazalil	284 - 2712	ND	Thiacloprid	41 - 2696	ND
Imidacloprid	41 - 2770	ND	Thiamethoxam	42 - 2750	ND
Kresoxim-methyl	45 - 2738	ND	Trifloxystrobin	43 - 2702	ND

Final Approval

 Karen Winternheimer
21Feb2024
11:47:00 AM MST
PREPARED BY / DATE

 Sam Smith
21Feb2024
11:48:00 AM MST
APPROVED BY / DATE

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.

Duluth, MN USA 55806

Puff - Dragonfruit Cloudberry

Batch ID or Lot Number: 022024-PCB	Test, Test ID and Methods: Various	Matrix: Unit	Page 4 of 4
Reported: 16Feb2024	Started: 16Feb2024	Received: 16Feb2024	



<https://results.botanacor.com/api/v1/coas/uuid/a26d5304-d9ab-4ff5-a2f3-c283e60a7803>

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 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



Cert #4329.02

a26d5304d9ab4ff5a2f3c283e60a7803.1