

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

Puff - Dragonfruit Pineapple

Batch ID or Lot Number: 111323-PUFF	Test: Potency	Reported: 20Nov2023	USDA License: N/A
Matrix: Unit	Test ID: T000261885	Started: 13Nov2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 14Nov2023	Status: N/A

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.154	0.542	ND	ND	Amendment to T000261885 issued on 14Nov2023 to correct the batch ID. # of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.141	0.496	ND	ND	
Cannabidiol (CBD)	0.492	1.177	ND	ND	
Cannabidiolic Acid (CBDA)	0.504	1.207	ND	ND	
Cannabidivarin (CBDV)	0.116	0.278	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.210	0.503	ND	ND	
Cannabigerol (CBG)	0.088	0.308	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.366	1.287	ND	ND	
Cannabinol (CBN)	0.114	0.402	ND	ND	
Cannabinolic Acid (CBNA)	0.250	0.878	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.437	1.533	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.397	1.392	10.060	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.351	1.233	ND	ND	
Tetrahydrocannabivarin (THCV)	0.080	0.280	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.310	1.088	ND	ND	
Total Cannabinoids			10.060	0.00	
Total Potential THC			10.060	0.00	
Total Potential CBD			ND	ND	

Final Approval



Karen Winternheimer
20Nov2023
01:57:00 PM MST

PREPARED BY / DATE



Sam Smith
20Nov2023
02:01:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/664a9c88-360e-4d3a-b32b-8a20ee9f6d86>

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
664a9c88360e4d3ab32b8a20ee9f6d86.2

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

Puff - Dragonfruit Pineapple

Batch ID or Lot Number: 111323-Puff	Test, Test ID and Methods: Various	Matrix: Unit	Page 2 of 4
Reported: 10Nov2023	Started: 10Nov2023	Received: 10Nov2023	

Microbial Contaminants

Test ID: T000261691

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


Eden Thompson-Wright
13Nov2023
02:47:00 PM MST
PREPARED BY / DATE


Brianne Maillot
13Nov2023
04:22:00 PM MST
APPROVED BY / DATE

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

Puff - Dragonfruit Pineapple

Batch ID or Lot Number: 111323-Puff	Test, Test ID and Methods: Various	Matrix: Unit	Page 3 of 4
Reported: 10Nov2023	Started: 10Nov2023	Received: 10Nov2023	


Pesticides


Test ID: T000261690

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	320 - 2657	ND		Malathion	291 - 2732	ND
Acephate	40 - 2714	ND		Metalaxyl	40 - 2717	ND
Acetamiprid	42 - 2674	ND		Methiocarb	42 - 2689	ND
Azoxystrobin	44 - 2736	ND		Methomyl	40 - 2733	ND
Bifenazate	40 - 2717	ND		MGK 264 1	152 - 1642	ND
Boscalid	39 - 2668	ND		MGK 264 2	107 - 1082	ND
Carbaryl	40 - 2700	ND		Myclobutanil	66 - 2662	ND
Carbofuran	46 - 2701	ND		Naled	48 - 2655	ND
Chlorantraniliprole	44 - 2691	ND		Oxamyl	41 - 2730	ND
Chlorpyrifos	43 - 2693	ND		Paclobutrazol	40 - 2694	ND
Clofentezine	291 - 2692	ND		Permethrin	286 - 2771	ND
Diazinon	289 - 2731	ND		Phosmet	42 - 2611	ND
Dichlorvos	290 - 2635	ND		Prophos	262 - 2694	ND
Dimethoate	41 - 2692	ND		Propoxur	45 - 2660	ND
E-Fenpyroximate	282 - 2759	ND		Pyridaben	286 - 2751	ND
Etofenprox	45 - 2729	ND		Spinosad A	32 - 2077	ND
Etoxazole	284 - 2668	ND		Spinosad D	68 - 682	ND
Fenoxycarb	45 - 2740	ND		Spiromesifen	285 - 2744	ND
Fipronil	52 - 2898	ND		Spirotetramat	283 - 2778	ND
Flonicamid	45 - 2724	ND		Spiroxamine 1	15 - 1008	ND
Fludioxonil	266 - 2671	ND		Spiroxamine 2	23 - 1592	ND
Hexythiazox	42 - 2775	ND		Tebuconazole	288 - 2759	ND
Imazalil	278 - 2740	ND		Thiacloprid	42 - 2695	ND
Imidacloprid	38 - 2748	ND		Thiamethoxam	43 - 2737	ND
Kresoxim-methyl	44 - 2717	ND		Trifloxystrobin	46 - 2716	ND

Final Approval


Karen Winternheimer
16Nov2023
10:22:00 AM MST
PREPARED BY / DATE


Sam Smith
16Nov2023
10:26:00 AM MST
APPROVED BY / DATE

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

Puff - Dragonfruit Pineapple

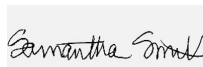
Batch ID or Lot Number: 111323-Puff	Test, Test ID and Methods: Various	Matrix: Unit	Page 4 of 4
Reported: 10Nov2023	Started: 10Nov2023	Received: 10Nov2023	


Heavy Metals

Test ID: T000261692
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.65	ND	
Cadmium	0.05 - 5.03	ND	
Mercury	0.05 - 4.80	ND	
Lead	0.05 - 4.66	ND	

Final Approval


Samantha Simms
17Nov2023
07:29:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
17Nov2023
07:31:00 AM MST
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/2b8b25fd-5a89-4418-aa8a-76e43dc406f0>

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
2b8b25fd5a894418aa8a76e43dc406f0.1