

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

Puff - Dragonfruit Pineapple

Batch ID or Lot Number: 062024-PDP	Test: Potency	Reported: 21Jun2024	USDA License: N/A
Matrix: Unit	Test ID: T000284877	Started: 21Jun2024	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 21Jun2024	Status: N/A

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.117	0.469	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.107	0.429	ND	ND	
Cannabidiol (CBD)	0.403	1.190	1.790	0.00	
Cannabidiolic Acid (CBDA)	0.413	1.221	ND	ND	
Cannabidivarin (CBDV)	0.095	0.282	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.172	0.509	ND	ND	
Cannabigerol (CBG)	0.066	0.266	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.278	1.113	ND	ND	
Cannabinol (CBN)	0.087	0.347	ND	ND	
Cannabinolic Acid (CBNA)	0.189	0.759	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.331	1.326	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.300	1.204	10.150	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.266	1.067	ND	ND	
Tetrahydrocannabivarin (THCV)	0.060	0.242	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.235	0.941	ND	ND	
Total Cannabinoids			11.940	0.00	
Total Potential THC			10.150	0.00	
Total Potential CBD			1.790	0.00	

Final Approval


Sam Smith
21Jun2024
02:54:00 PM MDT

PREPARED BY / DATE


Karen Winternheimer
21Jun2024
02:55:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/fad6d744-78e2-4b27-b217-a02d999cc04e>

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
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1912 W Michigan St.
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Puff - Dragonfruit Pineapple

Batch ID or Lot Number: 062024-PDP	Test, Test ID and Methods: Various	Matrix: Unit	Page 2 of 4
Reported: 20Jun2024	Started: 20Jun2024	Received: 20Jun2024	


Microbial Contaminants


Test ID: T000284444

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	<LLOQ	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	<LLOQ	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval


Brianne Maillot
24Jun2024
03:38:00 PM MDT


Brett Hudson
24Jun2024
05:14:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

Heavy Metals


Test ID: T000284445

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.66	ND	
Cadmium	0.05 - 4.56	ND	
Mercury	0.05 - 4.82	ND	
Lead	0.05 - 4.70	ND	

Final Approval


Karen Winternheimer
26Jun2024
01:48:00 PM MDT


Sam Smith
26Jun2024
02:00:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

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Bent Paddle Brewing Co
1912 W Michigan St.
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Pesticides


Test ID: T000284443

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	492 - 2782	ND		Malathion	289 - 2740	ND
Acephate	39 - 2737	ND		Metalaxyl	43 - 2742	ND
Acetamiprid	39 - 2709	ND		Methiocarb	41 - 2732	ND
Azoxystrobin	45 - 2727	ND		Methomyl	42 - 2761	ND
Bifenazate	45 - 2708	ND		MGK 264 1	65 - 1532	ND
Boscalid	39 - 2717	ND		MGK 264 2	97 - 1089	ND
Carbaryl	38 - 2731	ND		Myclobutanil	40 - 2704	ND
Carbofuran	42 - 2702	ND		Naled	43 - 2682	ND
Chlorantraniliprole	38 - 2717	ND		Oxamyl	42 - 2764	ND
Chlorpyrifos	25 - 2744	ND		Paclobutrazol	41 - 2702	ND
Clofentezine	278 - 2710	ND		Permethrin	263 - 2746	ND
Diazinon	278 - 2746	ND		Phosmet	43 - 2608	ND
Dichlorvos	264 - 2725	ND		Prophos	277 - 2740	ND
Dimethoate	41 - 2726	ND		Propoxur	42 - 2701	ND
E-Fenpyroximate	260 - 2843	ND		Pyridaben	265 - 2838	ND
Etofenprox	36 - 2769	ND		Spinosad A	30 - 2070	ND
Etoxazole	254 - 2755	ND		Spinosad D	58 - 687	ND
Fenoxycarb	42 - 2737	ND		Spiromesifen	246 - 2837	ND
Fipronil	37 - 2764	ND		Spirotetramat	294 - 2758	ND
Flonicamid	45 - 2733	ND		Spiroxamine 1	15 - 1020	ND
Fludioxonil	268 - 2689	ND		Spiroxamine 2	24 - 1610	ND
Hexythiazox	34 - 2828	ND		Tebuconazole	303 - 2724	ND
Imazalil	284 - 2776	ND		Thiacloprid	43 - 2760	ND
Imidacloprid	43 - 2744	ND		Thiamethoxam	37 - 2739	ND
Kresoxim-methyl	46 - 2757	ND		Trifloxystrobin	42 - 2725	ND

Final Approval


Sam Smith
27Jun2024
09:09:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
27Jun2024
09:11:00 AM MDT
APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/d3572ac9-174b-4c63-9e99-8c6dc9f10c4e>

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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