

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.

Duluth, MN USA 55806

Puff - Dragonfruit Pineapple

Batch ID or Lot Number: 010824-PDP	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: 04Jan2024	Started: 04Jan2024	Received: 04Jan2024	


Cannabinoids

Test ID: T000266608


Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.173	0.471	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.158	0.431	ND	ND	
Cannabidiol (CBD)	0.468	1.275	ND	ND	
Cannabidiolic Acid (CBDA)	0.480	1.308	ND	ND	
Cannabidivarin (CBDV)	0.111	0.302	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.200	0.546	ND	ND	
Cannabigerol (CBG)	0.098	0.268	0.360	0.00	
Cannabigerolic Acid (CBGA)	0.410	1.119	ND	ND	
Cannabinol (CBN)	0.128	0.349	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.280	0.763	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.489	1.333	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.444	1.210	9.880	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.393	1.072	ND	ND	
Tetrahydrocannabivarin (THCV)	0.089	0.243	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.347	0.946	ND	ND	
Total Cannabinoids			10.240	0.00	
Total Potential THC			9.880	0.00	
Total Potential CBD			ND	ND	

Final Approval


Sam Smith
04Jan2024
01:03:00 PM MST

PREPARED BY / DATE


Karen Winternheimer
04Jan2024
01:07:00 PM MST

APPROVED BY / DATE

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Microbial Contaminants


Test ID: T000266610

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
 07Jan2024
 12:58:00 PM MST
 PREPARED BY / DATE


 Brett Hudson
 08Jan2024
 10:59:00 AM MST
 APPROVED BY / DATE

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Bent Paddle Brewing Co
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Pesticides


Test ID: T000266609

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	329 - 2655	ND		Malathion	275 - 2667	ND
Acephate	41 - 2715	ND		Metalaxyl	44 - 2676	ND
Acetamiprid	43 - 2673	ND		Methiocarb	48 - 2648	ND
Azoxystrobin	43 - 2697	ND		Methomyl	47 - 2702	ND
Bifenazate	43 - 2691	ND		MGK 264 1	163 - 1625	ND
Boscalid	45 - 2600	ND		MGK 264 2	105 - 1081	ND
Carbaryl	40 - 2722	ND		Myclobutanil	34 - 2630	ND
Carbofuran	41 - 2697	ND		Naled	44 - 2671	ND
Chlorantraniliprole	49 - 2615	ND		Oxamyl	43 - 2703	ND
Chlorpyrifos	48 - 2702	ND		Paclobutrazol	39 - 2711	ND
Clofentezine	265 - 2734	ND		Permethrin	274 - 2694	ND
Diazinon	274 - 2680	ND		Phosmet	40 - 2557	ND
Dichlorvos	295 - 2706	ND		Prophos	291 - 2654	ND
Dimethoate	46 - 2650	ND		Propoxur	40 - 2710	ND
E-Fenpyroximate	248 - 2807	ND		Pyridaben	274 - 2673	ND
Etofenprox	43 - 2636	ND		Spinosad A	28 - 2077	ND
Etoxazole	285 - 2599	ND		Spinosad D	59 - 652	ND
Fenoxycarb	41 - 2691	ND		Spiromesifen	261 - 2652	ND
Fipronil	53 - 2694	ND		Spirotetramat	268 - 2724	ND
Flonicamid	54 - 2701	ND		Spiroxamine 1	16 - 997	ND
Fludioxonil	294 - 2617	ND		Spiroxamine 2	27 - 1556	ND
Hexythiazox	41 - 2702	ND		Tebuconazole	286 - 2677	ND
Imazalil	270 - 2704	ND		Thiacloprid	43 - 2685	ND
Imidacloprid	50 - 2717	ND		Thiamethoxam	42 - 2715	ND
Kresoxim-methyl	43 - 2673	ND		Trifloxystrobin	42 - 2714	ND

Final Approval


Karen Winternheimer
10Jan2024
01:03:00 PM MST
PREPARED BY / DATE


Sam Smith
10Jan2024
01:06:00 PM MST
APPROVED BY / DATE

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Heavy Metals

Test ID: T000266611


Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.55	ND	
Cadmium	0.04 - 4.47	ND	
Mercury	0.05 - 4.61	ND	
Lead	0.04 - 4.14	ND	

Final Approval


Samantha Smith
10Jan2024
02:12:00 PM MST

PREPARED BY / DATE


Karen Winternheimer
10Jan2024
02:21:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/7c404511-71ff-4481-8ee7-1d9638dba647>

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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