

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.

Duluth, MN USA 55806

Puff - Dragonfruit Cloudberry

Batch ID or Lot Number: 011724-PCB	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: 12Jan2024	Started: 12Jan2024	Received: 12Jan2024	


Cannabinoids


Test ID: T000267620

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.184	0.513	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.168	0.470	ND	ND	
Cannabidiol (CBD)	0.498	1.332	ND	ND	
Cannabidiolic Acid (CBDA)	0.510	1.366	ND	ND	
Cannabidivarin (CBDV)	0.118	0.315	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.213	0.570	ND	ND	
Cannabigerol (CBG)	0.104	0.292	0.330	0.00	
Cannabigerolic Acid (CBGA)	0.436	1.219	ND	ND	
Cannabinol (CBN)	0.136	0.380	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.298	0.831	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.520	1.452	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.472	1.319	9.710	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.418	1.168	ND	ND	
Tetrahydrocannabivarin (THCV)	0.095	0.265	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.369	1.030	ND	ND	
Total Cannabinoids			10.040	0.00	
Total Potential THC			9.710	0.00	
Total Potential CBD			ND	ND	

Final Approval

 Karen Winternheimer
12Jan2024
04:24:00 PM MST
PREPARED BY / DATE

 Sam Smith
12Jan2024
04:25:00 PM MST
APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000267622

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



Brett Hudson
16Jan2024
04:22:00 PM MST

PREPARED BY / DATE



Brianne Maillot
16Jan2024
04:33:00 PM MST

APPROVED BY / DATE

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Bent Paddle Brewing Co
1912 W Michigan St.
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Pesticides


Test ID: T000267621

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	311 - 2831	ND		Malathion	276 - 2695	ND
Acephate	40 - 2758	ND		Metalaxyl	44 - 2712	ND
Acetamiprid	43 - 2718	ND		Methiocarb	38 - 2787	ND
Azoxystrobin	43 - 2716	ND		Methomyl	43 - 2772	ND
Bifenazate	44 - 2695	ND		MGK 264 1	158 - 1629	ND
Boscalid	42 - 2734	ND		MGK 264 2	113 - 1090	ND
Carbaryl	41 - 2697	ND		Myclobutanil	70 - 2723	ND
Carbofuran	44 - 2706	ND		Naled	46 - 2668	ND
Chlorantraniliprole	42 - 2772	ND		Oxamyl	42 - 2768	ND
Chlorpyrifos	42 - 2771	ND		Paclobutrazol	46 - 2692	ND
Clofentezine	282 - 2719	ND		Permethrin	289 - 2802	ND
Diazinon	271 - 2723	ND		Phosmet	40 - 2590	ND
Dichlorvos	271 - 2767	ND		Prophos	275 - 2751	ND
Dimethoate	43 - 2709	ND		Propoxur	43 - 2702	ND
E-Fenpyroximate	264 - 2851	ND		Pyridaben	290 - 2755	ND
Etofenprox	42 - 2778	ND		Spinosad A	34 - 2084	ND
Etoxazole	281 - 2696	ND		Spinosad D	66 - 682	ND
Fenoxycarb	43 - 2739	ND		Spiromesifen	263 - 2781	ND
Fipronil	54 - 2790	ND		Spirotetramat	282 - 2798	ND
Flonicamid	50 - 2792	ND		Spiroxamine 1	15 - 1055	ND
Fludioxonil	283 - 2738	ND		Spiroxamine 2	23 - 1629	ND
Hexythiazox	40 - 2806	ND		Tebuconazole	274 - 2726	ND
Imazalil	264 - 2746	ND		Thiacloprid	45 - 2728	ND
Imidacloprid	38 - 2799	ND		Thiamethoxam	42 - 2767	ND
Kresoxim-methyl	43 - 2739	ND		Trifloxystrobin	44 - 2718	ND

Final Approval


Karen Winternheimer
17Jan2024
08:38:00 AM MST
PREPARED BY / DATE


Sam Smith
17Jan2024
08:39:00 AM MST
APPROVED BY / DATE

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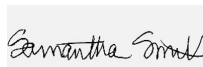
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Heavy Metals

Test ID: T000267623
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.51	ND	
Cadmium	0.05 - 4.59	ND	
Mercury	0.05 - 4.59	ND	
Lead	0.05 - 4.65	ND	

Final Approval


Samantha Smith
18Jan2024
02:49:00 PM MST
PREPARED BY / DATE


Karen Winternheimer
18Jan2024
03:01:00 PM MST
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/812bab87-b85c-432b-ab14-8536150cd105>

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](#).



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