

Prepared for:

**Bent Paddle Brewing Co**

1912 W Michigan St.

Duluth, MN USA 55806

## Puff - Dragon Fruit + Pineapple

Batch ID or Lot Number: <b>061423-PUFF</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: <b>13Jun2023</b>	Started: 13Jun2023	Received: 12Jun2023	


### Cannabinoids

Test ID: T000246228


Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.167	0.511	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.153	0.467	ND	ND	
Cannabidiol (CBD)	0.437	1.284	ND	ND	
Cannabidiolic Acid (CBDA)	0.448	1.317	ND	ND	
Cannabidivarin (CBDV)	0.103	0.304	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.187	0.549	ND	ND	
Cannabigerol (CBG)	0.095	0.290	0.300	0.00	
Cannabigerolic Acid (CBGA)	0.397	1.212	ND	ND	
Cannabinol (CBN)	0.124	0.378	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.271	0.827	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.473	1.444	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.430	1.311	10.290	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.381	1.162	ND	ND	
Tetrahydrocannabivarin (THCV)	0.086	0.264	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.336	1.025	ND	ND	
<b>Total Cannabinoids</b>			<b>10.590</b>	<b>0.00</b>	
Total Potential THC			10.290	0.00	
Total Potential CBD			ND	ND	

### Final Approval

  
Sam Smith  
13Jun2023  
03:16:00 PM MDT

PREPARED BY / DATE

  
Karen Winternheimer  
13Jun2023  
03:17:00 PM MDT

APPROVED BY / DATE

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### Pesticides


Test ID: T000246229

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)	Dynamic Range (ppb)	Result (ppb)	
Abamectin	324 - 2708	ND	Malathion	284 - 2734	ND
Acephate	42 - 2749	ND	Metalaxyl	40 - 2728	ND
Acetamiprid	42 - 2736	ND	Methiocarb	43 - 2696	ND
Azoxystrobin	42 - 2732	ND	Methomyl	40 - 2755	ND
Bifenazate	36 - 2734	ND	MGK 264 1	170 - 1682	ND
Boscalid	41 - 2633	ND	MGK 264 2	116 - 1089	ND
Carbaryl	42 - 2725	ND	Myclobutanil	49 - 2712	ND
Carbofuran	40 - 2721	ND	Naled	48 - 2769	ND
Chlorantraniliprole	43 - 2679	ND	Oxamyl	43 - 2761	ND
Chlorpyrifos	48 - 2707	ND	Paclobutrazol	43 - 2723	ND
Clofentezine	295 - 2728	ND	Permethrin	268 - 2709	ND
Diazinon	269 - 2743	ND	Phosmet	41 - 2716	ND
Dichlorvos	285 - 2773	ND	Prophos	294 - 2657	ND
Dimethoate	43 - 2725	ND	Propoxur	41 - 2732	ND
E-Fenpyroximate	288 - 2730	ND	Pyridaben	304 - 2699	ND
Etofenprox	42 - 2687	ND	Spinosad A	31 - 2094	ND
Etoxazole	312 - 2668	ND	Spinosad D	66 - 658	ND
Fenoxycarb	21 - 2754	ND	Spiromesifen	286 - 2701	ND
Fipronil	62 - 2678	ND	Spirotetramat	266 - 2795	ND
Flonicamid	40 - 2782	ND	Spiroxamine 1	15 - 1217	ND
Fludioxonil	283 - 2660	ND	Spiroxamine 2	26 - 1496	ND
Hexythiazox	42 - 2695	ND	Tebuconazole	261 - 2748	ND
Imazalil	269 - 2767	ND	Thiacloprid	43 - 2712	ND
Imidacloprid	44 - 2811	ND	Thiamethoxam	41 - 2774	ND
Kresoxim-methyl	21 - 2779	ND	Trifloxystrobin	42 - 2718	ND

### Final Approval

  
 Karen Winternheimer  
 16Jun2023  
 04:36:00 PM MDT  
 PREPARED BY / DATE

  
 Sam Smith  
 16Jun2023  
 04:38:00 PM MDT  
 APPROVED BY / DATE

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## Microbial Contaminants


Test ID: T000246230

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

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

### Final Approval

  
Brianne Maillot  
16Jun2023  
10:15:00 AM MDT

  
Brett Hudson  
16Jun2023  
04:06:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE


## Heavy Metals

Test ID: T000246231

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.07 - 7.09	ND	
Cadmium	0.05 - 4.73	ND	
Mercury	0.05 - 4.72	ND	
Lead	0.10 - 9.95	ND	

### Final Approval

  
Samantha Smith  
20Jun2023  
02:21:00 PM MDT

  
Karen Winternheimer  
20Jun2023  
02:35:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/5066adf8-572a-4bf2-bfe8-3d0e5465cfa>

**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  $\times$  (0.877)) and Total CBD = CBD + (CBDa  $\times$  (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  $\times$  (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:  $10^2$  = 100 CFU,  $10^3$  = 1,000 CFU,  $10^4$  = 10,000 CFU,  $10^5$  = 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 Accredited by A2LA. 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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