

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

Puff - Dragon Fruit Pineapple

Batch ID or Lot Number: 070523-PUFF	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 3
Reported: 05Jul2023	Started: 30Jun2023	Received: 30Jun2023	

Microbial Contaminants

Test ID: T000247911

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
05Jul2023
09:09:00 AM MDT
PREPARED BY / DATE


Eden Thompson-Wright
05Jul2023
09:26:00 AM MDT
APPROVED BY / DATE


Heavy Metals


Test ID: T000247912

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.15	ND	
Cadmium	0.04 - 4.29	ND	
Mercury	0.04 - 4.35	ND	
Lead	0.04 - 4.35	ND	

Final Approval


Samantha Smith
06Jul2023
07:48:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
06Jul2023
07:54:00 AM MDT
APPROVED BY / DATE

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Pesticides


Test ID: T000247910

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)	Dynamic Range (ppb)	Result (ppb)	
Abamectin	365 - 2720	ND	Malathion	274 - 2746	ND
Acephate	43 - 2742	ND	Metalaxyl	40 - 2732	ND
Acetamiprid	41 - 2697	ND	Methiocarb	43 - 2768	ND
Azoxystrobin	42 - 2750	ND	Methomyl	42 - 2744	ND
Bifenazate	41 - 2738	ND	MGK 264 1	168 - 1729	ND
Boscalid	45 - 2779	ND	MGK 264 2	103 - 1086	ND
Carbaryl	42 - 2763	ND	Myclobutanil	44 - 2805	ND
Carbofuran	41 - 2724	ND	Naled	45 - 2772	ND
Chlorantraniliprole	47 - 2795	ND	Oxamyl	44 - 2736	ND
Chlorpyrifos	42 - 2734	ND	Paclobutrazol	43 - 2735	ND
Clofentezine	285 - 2748	ND	Permethrin	297 - 2697	ND
Diazinon	290 - 2732	ND	Phosmet	39 - 2738	ND
Dichlorvos	282 - 2726	ND	Prophos	318 - 2754	ND
Dimethoate	39 - 2704	ND	Propoxur	42 - 2731	ND
E-Fenpyroximate	284 - 2726	ND	Pyridaben	289 - 2678	ND
Etofenprox	39 - 2689	ND	Spinosad A	28 - 2074	ND
Etoxazole	290 - 2691	ND	Spinosad D	62 - 668	ND
Fenoxycarb	31 - 2749	ND	Spiromesifen	271 - 2725	ND
Fipronil	60 - 2615	ND	Spirotetramat	281 - 2815	ND
Flonicamid	44 - 2773	ND	Spiroxamine 1	18 - 1260	ND
Fludioxonil	302 - 2760	ND	Spiroxamine 2	21 - 1567	ND
Hexythiazox	46 - 2690	ND	Tebuconazole	294 - 2756	ND
Imazalil	265 - 2781	ND	Thiacloprid	41 - 2698	ND
Imidacloprid	52 - 2772	ND	Thiamethoxam	42 - 2725	ND
Kresoxim-methyl	44 - 2736	ND	Trifloxystrobin	40 - 2710	ND

Final Approval


 Karen Winternheimer
 06Jul2023
 02:08:00 PM MDT
 PREPARED BY / DATE


 Sam Smith
 11Jul2023
 01:02:00 PM MDT
 APPROVED BY / DATE

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1912 W Michigan St.
Duluth, MN USA 55806

Puff - Dragon Fruit Pineapple

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Cannabinoids

Test ID: T000247909


Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.158	0.502	ND	ND	Amendment to T000247909 issued 30Jun2023 to update fill wt. # of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.144	0.459	ND	ND	
Cannabidiol (CBD)	0.478	1.277	ND	ND	
Cannabidiolic Acid (CBDA)	0.490	1.310	ND	ND	
Cannabidivarin (CBDV)	0.113	0.302	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.204	0.546	ND	ND	
Cannabigerol (CBG)	0.089	0.285	0.330	0.00	
Cannabigerolic Acid (CBGA)	0.374	1.191	ND	ND	
Cannabinol (CBN)	0.117	0.372	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.255	0.813	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.446	1.419	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.405	1.289	9.590	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.359	1.142	ND	ND	
Tetrahydrocannabivarin (THCV)	0.081	0.259	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.316	1.007	ND	ND	
Total Cannabinoids			9.920	0.00	
Total Potential THC			9.590	0.00	
Total Potential CBD			ND	ND	

Final Approval

 Sam Smith
12Jul2023
07:31:00 AM MDT

PREPARED BY / DATE

 Karen Winternheimer
12Jul2023
07:31:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/38df4be5-3848-4336-aa33-241a7fc1b1b8>

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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