

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St. Duluth, MN USA 55806

Puff - Dragon Fruit Pineapple

Batch ID or Lot Number: 090723-PUFF	Test: Potency	Reported: 12Sep2023	USDA License: N/A	
Matrix: Unit	Test ID: T000255844	Started: 12Sep2023	Sampler ID: N/A	
	Method(s): TM14 (HPLC-DAD)	Received: 12Sep2023	Status: N/A	

Cannabinoids	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.148	0.488	<loq< td=""><td><loq< td=""><td># of Servings</td></loq<></td></loq<>	<loq< td=""><td># of Servings</td></loq<>	# of Servings
Cannabichromenic Acid (CBCA)	0.136	0.446	ND	ND	Sample
Cannabidiol (CBD)	0.467	1.276	ND	ND	Weight=355g
Cannabidiolic Acid (CBDA)	0.479	1.309	ND	ND	
Cannabidivarin (CBDV)	0.110	0.302	ND	ND	•
Cannabidivarinic Acid (CBDVA)	0.200	0.546	ND	ND	
Cannabigerol (CBG)	0.084	0.277	0.340	0.00	,
Cannabigerolic Acid (CBGA)	0.352	1.158	ND	ND	•
Cannabinol (CBN)	0.110	0.361	<loq< td=""><td><loq< td=""><td rowspan="3"></td></loq<></td></loq<>	<loq< td=""><td rowspan="3"></td></loq<>	
Cannabinolic Acid (CBNA)	0.240	0.790	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.420	1.379	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.381	1.252	10.430	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.338	1.110	ND	ND	•
Tetrahydrocannabivarin (THCV)	0.077	0.252	ND	ND	•
Tetrahydrocannabivarinic Acid (THCVA)	0.298	0.979	ND	ND	•
Total Cannabinoids			10.770	0.00	•
Total Potential THC			10.430	0.00	
Total Potential CBD			ND	ND	

Final Approval

Samantha Formul

Sam Smith 12Sep2023 03:06:00 PM MDT L Wintenheumen

Karen Winternheimer 12Sep2023 03:09:00 PM MDT



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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 Accredited by A2LA.







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Reported:	Started:	Received:	
07Sep2023	07Sep2023	07Sep2023	

Microbial

Contaminants

Test ID: T000255216

Methods: TM25 (PCR) TM24, TM26,		Quantitation			
TM27 (Culture Plating)	Method	LOD	Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Toreign matter
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

Rest Tehn

Brett Hudson 10Sep2023 04:17:00 PM MDT

Eden Thompson

Eden Thompson-Wright 11Sep2023 04:26:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

Heavy Metals

Test ID: T000255217

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.79	ND	
Cadmium	0.04 - 4.40	ND	_
Mercury	0.04 - 4.23	ND	_
Lead	0.04 - 4.27	ND	_

Final Approval

Sawantha Smoll

Sam Smith 13Sep2023 07:41:00 AM MDT

L Wintenhumen APPROVED BY / DATE

Karen Winternheimer 13Sep2023 07:44:00 AM MDT

PREPARED BY / DATE



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Pesticides

Test ID: T000255215 Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)	
Abamectin	352 - 2613	ND	
Acephate	45 - 2712	ND	
Acetamiprid	42 - 2736	ND	
Azoxystrobin	48 - 2669	ND	
Bifenazate	47 - 2705	ND	
Boscalid	50 - 2752	ND	
Carbaryl	45 - 2704	ND	
Carbofuran	45 - 2713	ND	
Chlorantraniliprole	43 - 2842	ND	
Chlorpyrifos	47 - 2725	ND	
Clofentezine	268 - 2759	ND	
Diazinon	280 - 2723	ND	
Dichlorvos	255 - 2755	ND	
Dimethoate	42 - 2743	ND	
E-Fenpyroximate	280 - 2753	ND	
Etofenprox	45 - 2650	ND	
Etoxazole	307 - 2718	ND	
Fenoxycarb	25 - 2756	ND	
Fipronil	36 - 2773	ND	
Flonicamid	50 - 2757	ND	
Fludioxonil	305 - 2727	ND	
Hexythiazox	43 - 2745	ND	
Imazalil	282 - 2706	ND	
Imidacloprid	42 - 2790	ND	
Kresoxim-methyl	47 - 2693	ND	

	Dynamic Range (ppb)	Result (ppb)
Malathion	273 - 2712	ND
Metalaxyl	47 - 2676	ND
Methiocarb	47 - 2784	ND
Methomyl	42 - 2775	ND
MGK 264 1	132 - 1693	ND
MGK 264 2	110 - 1068	ND
Myclobutanil	93 - 2714	ND
Naled	46 - 2744	ND
Oxamyl	43 - 2782	ND
Paclobutrazol	45 - 2756	ND
Permethrin	278 - 2737	ND
Phosmet	42 - 2686	ND
Prophos	295 - 2783	ND
Propoxur	45 - 2701	ND
Pyridaben	300 - 2719	ND
Spinosad A	34 - 2073	ND
Spinosad D	72 - 670	ND
Spiromesifen	264 - 2755	ND
Spirotetramat	261 - 2774	ND
Spiroxamine 1	20 - 1216	ND
Spiroxamine 2	25 - 1555	ND
Tebuconazole	312 - 2653	ND
Thiacloprid	44 - 2738	ND
Thiamethoxam	43 - 2764	ND
Trifloxystrobin	46 - 2680	ND

Final Approval

PREPARED BY / DATE

Karen Winternheimer 14Sep2023 Withhelmer 08:36:00 AM MDT

Sawantha Smill 14Sep2023 08:38:00 AM MDT

Sam Smith

APPROVED BY / DATE



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https://results.botanacor.com/api/v1/coas/uuid/6a7ec779-6d4e-4908-a50b-e0fa45031db5

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: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 100,000 CFU.

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