SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

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

Puff - Dragonfruit Pineapple

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 4
031224-PDP	Various	Unit	
Reported:	Started:	Received:	
07Mar2024	07Mar2024	07Mar2024	

Cannabinoids

Test ID: T000273472
Methods: TM14 (HPLC-DAD)

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.144	0.482	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.132	0.441	ND	ND	
Cannabidiol (CBD)	0.443	1.279	ND	ND	
Cannabidiolic Acid (CBDA)	0.454	1.312	ND	ND	
Cannabidivarin (CBDV)	0.105	0.303	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.189	0.547	ND	ND	
Cannabigerol (CBG)	0.082	0.274	ND	ND	
Cannabigerolic Acid (CBGA)	0.342	1.144	ND	ND	
Cannabinol (CBN)	0.107	0.357	ND	ND	
Cannabinolic Acid (CBNA)	0.234	0.781	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.408	1.363	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.370	1.238	10.210	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.328	1.097	ND	ND	
Tetrahydrocannabivarin (THCV)	0.074	0.249	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.289	0.967	ND	ND	
Total Cannabinoids			**10.210**	**0.00**	
Total Potential THC			10.210	0.00	
Total Potential CBD			ND	ND	

Final Approval

Karen Winternheimer
07Mar2024
03:28:00 PM MST
PREPARED BY / DATE

Phillip Travisano
07Mar2024
03:29:00 PM MST
APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000273474
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
Salmonella	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

Eden Thompson-Wright
11Mar2024
09:58:00 AM MDT
PREPARED BY / DATE

Brett Hudson
11Mar2024
11:39:00 AM MDT
APPROVED BY / DATE

Heavy Metals

Test ID: T000273475
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.55	ND	
Cadmium	0.05 - 4.62	ND	
Mercury	0.05 - 4.53	ND	
Lead	0.05 - 4.52	ND	

Final Approval

Phillip Travisano
11Mar2024
02:13:00 PM MDT
PREPARED BY / DATE

Karen Winternheimer
11Mar2024
02:18:00 PM MDT
APPROVED BY / DATE

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Pesticides

Test ID: T000273473
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	392 - 2731	ND
Acephate	42 - 2664	ND
Acetamiprid	44 - 2648	ND
Azoxystrobin	47 - 2718	ND
Bifenazate	47 - 2741	ND
Boscalid	39 - 2707	ND
Carbaryl	42 - 2679	ND
Carbofuran	44 - 2687	ND
Chlorantraniliprole	38 - 2697	ND
Chlorpyrifos	54 - 2722	ND
Clofentezine	280 - 2713	ND
Diazinon	286 - 2720	ND
Dichlorvos	266 - 2715	ND
Dimethoate	44 - 2642	ND
E-Fenpyroximate	229 - 2831	ND
Etofenprox	49 - 2693	ND
Etoxazole	301 - 2626	ND
Fenoxycarb	43 - 2722	ND
Fipronil	61 - 2766	ND
Flonicamid	56 - 2698	ND
Fludioxonil	284 - 2706	ND
Hexythiazox	42 - 2735	ND
Imazalil	281 - 2771	ND
Imidacloprid	45 - 2681	ND
Kresoxim-methyl	45 - 2785	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	283 - 2748	ND
Metalaxyl	46 - 2742	ND
Methiocarb	44 - 2738	ND
Methomyl	45 - 2685	ND
MGK 264 1	164 - 1602	ND
MGK 264 2	127 - 1068	ND
Myclobutanil	44 - 2663	ND
Naled	49 - 2691	ND
Oxamyl	43 - 2699	ND
Paclobutrazol	44 - 2693	ND
Permethrin	159 - 2746	ND
Phosmet	39 - 2612	ND
Prophos	306 - 2711	ND
Propoxur	47 - 2704	ND
Pyridaben	295 - 2707	ND
Spinosad A	34 - 2071	ND
Spinosad D	67 - 652	ND
Spiromesifen	290 - 2706	ND
Spirotetramat	295 - 2796	ND
Spiroxamine 1	15 - 1051	ND
Spiroxamine 2	24 - 1592	ND
Tebuconazole	297 - 2745	ND
Thiacloprid	45 - 2648	ND
Thiamethoxam	43 - 2686	ND
Trifloxystrobin	46 - 2706	ND

Final Approval

Karen Winternheimer
13Mar2024
09:45:00 AM MDT
PREPARED BY / DATE

Phillip Travisano
13Mar2024
09:47:00 AM MDT
APPROVED BY / DATE

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https://results.botanacor.com/api/v1/coas/uuid/7fc48de1-9715-44f5-90cd-fb71bd565f9d

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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