

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.

Duluth, MN USA 55806

THC+ Berry Stash

Batch ID or Lot Number: 021224-BS	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: 08Feb2024	Started: 08Feb2024	Received: 08Feb2024	


Cannabinoids


Test ID: T000270374

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.157	0.516	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.143	0.472	ND	ND	
Cannabidiol (CBD)	0.448	1.512	5.430	0.00	
Cannabidiolic Acid (CBDA)	0.459	1.550	ND	ND	
Cannabidivarin (CBDV)	0.106	0.358	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.192	0.647	ND	ND	
Cannabigerol (CBG)	0.089	0.293	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.372	1.224	ND	ND	
Cannabinol (CBN)	0.116	0.382	ND	ND	
Cannabinolic Acid (CBNA)	0.254	0.835	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.443	1.458	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.403	1.324	4.840	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.357	1.173	ND	ND	
Tetrahydrocannabivarin (THCV)	0.081	0.266	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.315	1.035	ND	ND	
Total Cannabinoids			10.270	0.00	
Total Potential THC			4.840	0.00	
Total Potential CBD			5.430	0.00	

Final Approval


 Karen Winternheimer
 08Feb2024
 02:22:00 PM MST
 PREPARED BY / DATE


 Sam Smith
 08Feb2024
 02:25:00 PM MST
 APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000270376

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
12Feb2024
10:33:00 AM MST
PREPARED BY / DATE


Eden Thompson-Wright
12Feb2024
10:56:00 AM MST
APPROVED BY / DATE


Heavy Metals


Test ID: T000270377

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.45	ND	
Cadmium	0.04 - 4.46	ND	
Mercury	0.05 - 4.68	ND	
Lead	0.05 - 4.62	ND	

Final Approval


Karen Winternheimer
13Feb2024
02:40:00 PM MST
PREPARED BY / DATE


Karen Winternheimer
13Feb2024
03:19:00 PM MST
APPROVED BY / DATE

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Pesticides


Test ID: T000270375

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	320 - 2746	ND		Malathion	300 - 2671	ND
Acephate	41 - 2688	ND		Metalaxyl	46 - 2667	ND
Acetamiprid	44 - 2659	ND		Methiocarb	44 - 2834	ND
Azoxystrobin	46 - 2651	ND		Methomyl	43 - 2708	ND
Bifenazate	42 - 2659	ND		MGK 264 1	161 - 1633	ND
Boscalid	49 - 2828	ND		MGK 264 2	107 - 1077	ND
Carbaryl	42 - 2695	ND		Myclobutanil	45 - 2828	ND
Carbofuran	43 - 2694	ND		Naled	51 - 2656	ND
Chlorantraniliprole	46 - 2818	ND		Oxamyl	40 - 2726	ND
Chlorpyrifos	55 - 2650	ND		Paclobutrazol	44 - 2665	ND
Clofentezine	288 - 2737	ND		Permethrin	308 - 2748	ND
Diazinon	301 - 2655	ND		Phosmet	40 - 2532	ND
Dichlorvos	281 - 2747	ND		Prophos	291 - 2856	ND
Dimethoate	42 - 2674	ND		Propoxur	44 - 2694	ND
E-Fenpyroximate	271 - 2792	ND		Pyridaben	301 - 2700	ND
Etofenprox	45 - 2671	ND		Spinosad A	34 - 2055	ND
Etoxazole	297 - 2600	ND		Spinosad D	69 - 642	ND
Fenoxycarb	48 - 2687	ND		Spiromesifen	261 - 2688	ND
Fipronil	46 - 2791	ND		Spirotetramat	284 - 2725	ND
Flonicamid	48 - 2749	ND		Spiroxamine 1	16 - 1064	ND
Fludioxonil	344 - 2709	ND		Spiroxamine 2	23 - 1667	ND
Hexythiazox	45 - 2705	ND		Tebuconazole	282 - 2671	ND
Imazalil	284 - 2700	ND		Thiacloprid	44 - 2685	ND
Imidacloprid	48 - 2725	ND		Thiamethoxam	40 - 2708	ND
Kresoxim-methyl	44 - 2691	ND		Trifloxystrobin	44 - 2698	ND

Final Approval


Karen Winternheimer
14Feb2024
12:13:00 PM MST
PREPARED BY / DATE


Sam Smith
14Feb2024
12:15:00 PM MST
APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/7569665f-fa9c-438a-9ad6-b692abe2ba65>

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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