

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.

Duluth, MN USA 55806

THC+

Batch ID or Lot Number: 110122	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: 03Nov2022	Started: 02Nov2022	Received: 02Nov2022	

Cannabinoids

Test ID: T000226458

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.177	0.500	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.162	0.457	ND	ND	
Cannabidiol (CBD)	0.482	1.424	5.180	0.00	
Cannabidiolic Acid (CBDA)	0.494	1.461	ND	ND	
Cannabidivarin (CBDV)	0.114	0.337	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.206	0.609	ND	ND	
Cannabigerol (CBG)	0.101	0.284	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.420	1.186	ND	ND	
Cannabinol (CBN)	0.131	0.370	ND	ND	
Cannabinolic Acid (CBNA)	0.287	0.809	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.501	1.413	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.455	1.284	4.490	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.403	1.137	ND	ND	
Tetrahydrocannabivarin (THCV)	0.091	0.258	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.356	1.003	ND	ND	
Total Cannabinoids			9.670	0.00	
Total Potential THC			4.490	0.00	
Total Potential CBD			5.180	0.00	

Final Approval

 Sam Smith
03Nov2022
10:47:00 AM MDT

PREPARED BY / DATE

 Karen Winternheimer
03Nov2022
10:50:00 AM MDT

APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000226460

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
07Nov2022
10:52:00 AM MST
PREPARED BY / DATE


Eden Thompson-Wright
07Nov2022
03:09:00 PM MST
APPROVED BY / DATE

Heavy Metals

Test ID: T000226461

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.23	ND	
Cadmium	0.04 - 4.13	ND	
Mercury	0.04 - 4.11	ND	
Lead	0.04 - 4.05	ND	

Final Approval


Samantha Smith
07Nov2022
09:00:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
07Nov2022
09:04:00 AM MST
APPROVED BY / DATE

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Pesticides

Test ID: T000226459

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	257 - 2735	ND		Malathion	284 - 2744	ND
Acephate	40 - 2786	ND		Metalaxyl	40 - 2747	ND
Acetamiprid	37 - 2747	ND		Methiocarb	39 - 2742	ND
Azoxystrobin	41 - 2744	ND		Methomyl	36 - 2758	ND
Bifenazate	41 - 2713	ND		MGK 264 1	164 - 1614	ND
Boscalid	33 - 2752	ND		MGK 264 2	104 - 1124	ND
Carbaryl	38 - 2723	ND		Myclobutanil	13 - 2760	ND
Carbofuran	40 - 2722	ND		Naled	53 - 2773	ND
Chlorantraniliprole	43 - 2728	ND		Oxamyl	36 - 2749	ND
Chlorpyrifos	41 - 2741	ND		Paclobutrazol	41 - 2698	ND
Clofentezine	270 - 2744	ND		Permethrin	276 - 2738	ND
Diazinon	281 - 2758	ND		Phosmet	42 - 2720	ND
Dichlorvos	281 - 2794	ND		Prophos	274 - 2715	ND
Dimethoate	38 - 2745	ND		Propoxur	40 - 2729	ND
E-Fenpyroximate	272 - 2716	ND		Pyridaben	281 - 2684	ND
Etofenprox	40 - 2720	ND		Spinosad A	32 - 2240	ND
Etoxazole	284 - 2705	ND		Spinosad D	46 - 482	ND
Fenoxycarb	41 - 2740	ND		Spiromesifen	257 - 2742	ND
Fipronil	31 - 2850	ND		Spirotetramat	265 - 2801	ND
Flonicamid	42 - 2776	ND		Spiroxamine 1	18 - 1151	ND
Fludioxonil	298 - 2755	ND		Spiroxamine 2	22 - 1568	ND
Hexythiazox	41 - 2735	ND		Tebuconazole	279 - 2707	ND
Imazalil	265 - 2771	ND		Thiacloprid	40 - 2733	ND
Imidacloprid	43 - 2732	ND		Thiamethoxam	36 - 2764	ND
Kresoxim-methyl	42 - 2789	ND		Trifloxystrobin	42 - 2750	ND

Final Approval


Karen Winternheimer
10Nov2022
12:28:00 PM MST
PREPARED BY / DATE


Sam Smith
10Nov2022
12:30:00 PM MST
APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/30d3c8c9-82bf-436d-8422-e12b3abe30e7>

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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