

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St. Duluth, MN USA 55806

CBD+ POG

Batch ID or Lot Number: 041024-POG	Test: Potency	Reported: 09Apr2024	USDA License: N/A	
Matrix: Unit	Test ID: T000276986	Started: 09Apr2024	Sampler ID: N/A	
	Method(s): TM14 (HPLC-DAD)	Received: 09Apr2024	Status: N/A	

Cannabinoids	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.152	0.431	0.490	0.00	# of Servings = 1
Cannabichromenic Acid (CBCA)	0.139	0.394	ND	ND	Sample
Cannabidiol (CBD)	0.421	1.224	27.490	0.10	Weight=355g
Cannabidiolic Acid (CBDA)	0.432	1.255	ND	ND	
Cannabidivarin (CBDV)	0.100	0.289	0.650	0.00	•
Cannabidivarinic Acid (CBDVA)	0.180	0.524	ND	ND	•
Cannabigerol (CBG)	0.086	0.245	ND	ND	•
Cannabigerolic Acid (CBGA)	0.360	1.023	ND	ND	•
Cannabinol (CBN)	0.112	0.319	ND	ND	
Cannabinolic Acid (CBNA)	0.245	0.698	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.428	1.219	ND	ND	•
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.389	1.107	2.180	0.00	•
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.345	0.981	ND	ND	•
Tetrahydrocannabivarin (THCV)	0.078	0.223	ND	ND	•
Tetrahydrocannabivarinic Acid (THCVA)	0.304	0.865	ND	ND	•
Total Cannabinoids			30.810	0.10	•
Total Potential THC			2.180	0.00	•
Total Potential CBD			27.490	0.10	

Final Approval

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PREPARED BY / DATE

Karen Winternheimer 09Apr2024 02:11:00 PM MDT

APPROVED BY / DATE

Phillip Travisano 09Apr2024 02:16:00 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-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 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.





Cert #4329.02 aec5f4d3c41a457ebd165f47e50b4c22.1



Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St. Duluth, MN USA 55806

CBD+ POG

Batch ID or Lot Number: 041124-POG	Test, Test ID and Methods: Various	Matrix: Unit	Page 2 of 4
Reported:	Started:	Received:	
05Apr2024	04Apr2024	05Apr2024	

Microbial

Contaminants

Test ID: T000276638

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		
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

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Brett Hudson 08Apr2024 01:55:00 PM MDT

Buanne Maillot

Brianne Maillot 08Apr2024 04:43:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

Heavy Metals

Test ID: T000276639

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.80	ND	
Cadmium	0.05 - 4.75	ND	•
Mercury	0.05 - 4.77	ND	
Lead	0.05 - 4.74	ND	

Final Approval

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PREPARED BY / DATE

Phillip Travisano 10Apr2024 03:28:00 PM MDT

L Wintenhumen APPROVED BY / DATE Karen Winternheimer 10Apr2024 03:42:00 PM MDT



Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St. Duluth, MN USA 55806

CBD+ POG

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 3 of 4
041124-POG	Various	Unit	
Reported:	Started:	Received:	
05Apr2024	04Apr2024	05Apr2024	

Pesticides

Test ID: T000276637 Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)
Abamectin	331 - 2717	ND
Acephate	43 - 2748	ND
Acetamiprid	38 - 2715	ND
Azoxystrobin	46 - 2786	ND
Bifenazate	40 - 2781	ND
Boscalid	46 - 2784	ND
Carbaryl	38 - 2690	ND
Carbofuran	41 - 2691	ND
Chlorantraniliprole	47 - 2782	ND
Chlorpyrifos	53 - 2669	ND
Clofentezine	288 - 2722	ND
Diazinon	290 - 2777	ND
Dichlorvos	270 - 2736	ND
Dimethoate	39 - 2708	ND
E-Fenpyroximate	298 - 2760	ND
Etofenprox	42 - 2715	ND
Etoxazole	302 - 2657	ND
Fenoxycarb	39 - 2773	ND
Fipronil	40 - 2735	ND
Flonicamid	45 - 2735	ND
Fludioxonil	278 - 2757	ND
Hexythiazox	38 - 2756	ND
Imazalil	266 - 2815	ND
Imidacloprid	37 - 2768	ND
Kresoxim-methyl	42 - 2791	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	280 - 2768	ND
Metalaxyl	40 - 2783	ND
Methiocarb	40 - 2784	ND
Methomyl	40 - 2746	ND
MGK 264 1	164 - 1619	ND
MGK 264 2	106 - 1080	ND
Myclobutanil	35 - 2730	ND
Naled	48 - 2653	ND
Oxamyl	40 - 2770	ND
Paclobutrazol	43 - 2666	ND
Permethrin	292 - 2753	ND
Phosmet	41 - 2632	ND
Prophos	299 - 2777	ND
Propoxur	42 - 2704	ND
Pyridaben	314 - 2775	ND
Spinosad A	32 - 2090	ND
Spinosad D	68 - 670	ND
Spiromesifen	287 - 2722	ND
Spirotetramat	295 - 2839	ND
Spiroxamine 1	14 - 1067	ND
Spiroxamine 2	23 - 1614	ND
Tebuconazole	300 - 2775	ND
Thiacloprid	41 - 2721	ND
Thiamethoxam	40 - 2764	ND
Trifloxystrobin	42 - 2704	ND

Final Approval

L Winternheumen PREPARED BY / DATE

Karen Winternheimer 17Apr2024 10:29:00 AM MDT

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APPROVED BY / DATE

Phillip Travisano 17Apr2024 10:31:00 AM MDT



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1912 W Michigan St. Duluth, MN USA 55806

CBD+ POG

Batch ID or Lot Number: 041124-POG	Test, Test ID and Methods: Various	Matrix: Unit	Page 4 of 4
Reported:	Started:	Received:	
05Apr2024	04Apr2024	05Apr2024	



https://results.botanacor.com/api/v1/coas/uuid/9ce2707d-0b5e-4953-a4a8-f609bf38c48a

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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