

**REPORT PREPARED FOR:**

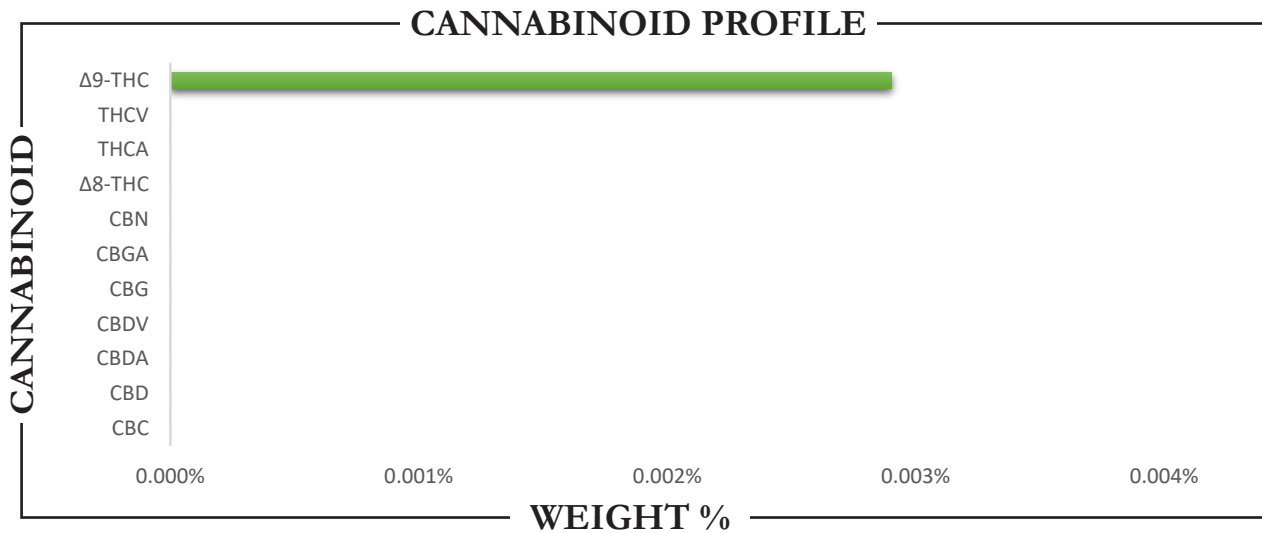
**Bent Paddle Brewing Co**  
1912 W Michigan St  
Duluth, MN 55806

**PROJECT#** 24021426  
**LAB ID** 54050476  
**REPORT DATE** 11/27/2024



**SAMPLE NAME:** 111924-PTS  
**DATE RECEIVED:** 11/15/2024

TOTAL Δ9-THC	TOTAL CBD	TOTAL CANNABINOIDS
10.30 MG	ND	10.30 MG



CANNABINOID	WEIGHT (%)	MG/CAN (355 ML)
CBC	ND	ND
CBD	ND	ND
CBDA	ND	ND
CBDV	ND	ND
CBG	ND	ND
CBGA	ND	ND
CBN	ND	ND
Δ8-THC	ND	ND
Δ9-THC	0.0029	10.30
THCA	ND	ND
THCV	ND	ND
<b>Total CBD</b>	<b>ND</b>	<b>ND</b>
<b>Total CBG</b>	<b>ND</b>	<b>ND</b>
<b>Total THC</b>	<b>0.0029</b>	<b>10.30</b>



Analysis Method: TP-POT-05  
By HPLC-VWD  
Total THC = (0.877 x THCA) + Δ9-THC  
Total CBD = (0.877 x CBDA) + CBD  
Total CBG = (0.877 x CBGA) + CBG  
ND = Not Detected

Prepared By: BRB  
Prep Date: 11/15/2024  
Batch ID: NOV1524A-POT

Analyzed By: BRB  
Analysis Date: 11/15/2024



APPROVED BY:  
**JUSTIN HALL**  
LAB DIRECTOR

*Justin Hall*  
SIGNATURE

11/27/2024  
SIGNED ON

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## PESTICIDES

PASS

PESTICIDE	ACTION LEVEL (PPB)	SAMPLE LEVEL (PPB)	PESTICIDE	ACTION LEVEL (PPB)	SAMPLE LEVEL (PPB)
Acephate	100	ND	Imidacloprid	5000	ND
Acequinocyl	100	ND	Kresoxim methyl	100	ND
Acetamiprid	100	ND	Malathion	500	ND
Aldicarb	LOD	ND	Metalaxyl	100	ND
Avermectin B1a <sup>1</sup>	100	ND	Methiocarb	LOD	ND
Avermectin B1b <sup>1</sup>	100	ND	Methomyl	1000	ND
Azoxystrobin	100	ND	Methyl-Parathion	LOD	ND
Bifenazate	100	ND	Mevinphos	LOD	ND
Bifenthrin	3000	ND	Myclobutanil	100	ND
Boscalid	100	ND	Oxamyl	500	ND
Captan	100	ND	Paclobutrazol	LOD	ND
Carbaryl	500	ND	Pentachloronitrobenzene	LOD	ND
Carbofuran	LOD	ND	Permethrin I	500	ND
Chlorantraniliprole	10000	ND	Phosmet	100	ND
Chlordane	100	ND	Piperonyl butoxide	3000	ND
Chlorfenapyr	LOD	ND	Prallethrin	100	ND
Chloromequat chloride	LOD	ND	Propiconazole	100	ND
Chlorpyrifos	LOD	ND	Propoxur	LOD	ND
Clofentezine	100	ND	Pyrethrin I	500	ND
Coumaphos	LOD	ND	Pyrethrin II	500	ND
Cyfluthrin	2000	ND	Pyridaben	100	ND
Cypermethrin	1000	ND	Spinetoram J	100	ND
Daminozide	LOD	ND	Spinetoram L	100	ND
Diazinon	100	ND	Spinosyn A <sup>2</sup>	100	ND
Dibrom (Naled)	100	ND	Spinosyn D <sup>2</sup>	100	ND
Dichlorvos	LOD	ND	Spiromesifen	100	ND
Dimethoate	LOD	ND	Spirotetramat	100	ND
Dimethomorph I	2000	ND	Spiroxamine	LOD	ND
Dimethomorph II	2000	ND	Tebuconazole	100	ND
Ethoprophos	LOD	ND	Thiacloprid	LOD	ND
Etofenprox	LOD	ND	Thiamethoxam	5000	ND
Etoazole	100	ND	Trifloxystrobin	100	ND
Fenhexamid	100	ND			
Fenoxycarb	LOD	ND			
Fenpyroximate	100	ND			
Fipronil	LOD	ND			
Flonicamid	100	ND			
Fludixonil	100	ND			
Hexythiazox	100	ND			
Imazalil	LOD	ND			

Prepared By: RF      Analyzed By: RF  
 Prepared Date: 11/22/2024      Analyzed Date: 11/22/2024  
 Analysis Batch: NOV2224A-PES  
 Analyzed by method TP-PES-01 on HPLC/MS/MS or GC/MS  
 ND = Analyte not detected  
 PPB = Parts per billion  
<sup>1</sup>Abamectin is a mixture of Avermectin B1a and Avermectin B1b  
<sup>2</sup>Spinosad is a mixture of isomers Spinosyn A and Spinosyn D

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LAB DIRECTOR

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## RESIDUAL SOLVENTS

**PASS**

CATEGORY I	PPM	CATEGORY II	PPM
Ethylene Oxide	ND	Propane	ND
Methylene Chloride	ND	Butane/Isobutane	ND
Benzene	ND	Pentane	ND
1,2-Dichloroethane	ND	Acetone	ND
Chloroform	ND	Acetonitrile	ND
Trichloroethylene	ND	Hexane	ND
Prepared By: RF		Ethyl Acetate	ND
Date Prepared: 11/25/2024		Heptane	ND
Analyzed By: RF		Methanol	ND
Analysis Date: 11/25/2024		Diethyl Ether	ND
Analysis Batch: NOV2524A-SOL		Ethanol	ND
Analysis method: TP-SOL-01 by HS-GC/MS		Isopropanol	ND
No Category I solvent may be present to pass		Toluene	ND
ND = Not detected		m+p Xylene	ND
PPM = Parts per million		o-Xylene	ND


## METALS

**PASS**

METALS FDA - CATEGORY I	ACTION LEVEL (PPM)	SAMPLE LEVEL (PPM)
Arsenic (As)	1.5	ND
Cadmium (Cd)	0.5	ND
Lead (Pb)	0.5	ND
Mercury (Hg)	3.0	ND

Prepared By: HS  
 Date Prepared: 11/25/2024  
 Analyzed By: HS  
 Analysis Date: 11/25/2024  
 Analyzed by EPA method 6020A via ICP-OES or ICP-MS  
 ND = Not detected  
 PPM = Parts per million

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**MYCOTOXINS**
**PASS**

MYCOTOXIN	ACTION LEVEL (PPB)	SAMPLE LEVEL (PPB)
Aflatoxin B1		ND
Aflatoxin B2	Sum of all aflatoxins	ND
Aflatoxin G1	not to exceed 20 PPB	ND
Aflatoxin G2		ND
Ochratoxin	20	ND

Prepared By: RF  
 Date Prepared: 11/22/2024  
 Analyzed By: RF  
 Analysis Date: 11/22/2024  
 Analysis Batch: NOV2224A-MYC

Analyzed by TP-MYC-01 on HPLC/MS/MS  
 ND = Not detected  
 PPB = Parts per billion

**MICROBIALS**
**PASS**

	ACTION LEVEL (CFU/G)	SAMPLE LEVEL (CFU/G)
Total Coliform		ND
E. Coli	Presence	ND
Yeast & Mold		ND
Enterobacteriaceae		ND
Salmonella	Presence	ND
Total Count		ND

Prepared By: PS  
 Date Prepared: 11/20/2024  
 Analyzed By: PS  
 Analysis Date: 11/22/2024

Analyzed by COMPACTDRY method.  
 ND = Not detected  
 CFU/G = Colony forming units per gram

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