

Prepared for:

**Bent Paddle Brewing Co**

1912 W Michigan St.

Duluth, MN USA 55806

## Finnegans Farm + Mrs Rebas Base

Batch ID or Lot Number: <b>121123-FF/REBA</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: <b>07Dec2023</b>	Started: 07Dec2023	Received: 07Dec2023	


### Cannabinoids


Test ID: T000264332

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.151	0.502	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.138	0.459	ND	ND	
Cannabidiol (CBD)	0.439	1.487	5.240	0.00	
Cannabidiolic Acid (CBDA)	0.450	1.525	ND	ND	
Cannabidivarin (CBDV)	0.104	0.352	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.188	0.636	ND	ND	
Cannabigerol (CBG)	0.086	0.285	0.640	0.00	
Cannabigerolic Acid (CBGA)	0.359	1.192	ND	ND	
Cannabinol (CBN)	0.112	0.372	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.245	0.813	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.428	1.420	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.388	1.290	5.080	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.344	1.143	ND	ND	
Tetrahydrocannabivarin (THCV)	0.078	0.259	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.304	1.008	ND	ND	
<b>Total Cannabinoids</b>			<b>10.960</b>	<b>0.00</b>	
Total Potential THC			5.080	0.00	
Total Potential CBD			5.240	0.00	

### Final Approval

  
 Karen Winternheimer  
 07Dec2023  
 03:37:00 PM MST  
 PREPARED BY / DATE

  
 Sam Smith  
 07Dec2023  
 03:39:00 PM MST  
 APPROVED BY / DATE

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## Microbial Contaminants

Test ID: T000264334

Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

### Final Approval

	Eden Thompson-Wright 11Dec2023 10:06:00 AM MST		Brett Hudson 11Dec2023 10:57:00 AM MST
PREPARED BY / DATE		APPROVED BY / DATE	

## Heavy Metals

Test ID: T000264335

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.38	ND	
Cadmium	0.04 - 4.34	ND	
Mercury	0.04 - 4.37	ND	
Lead	0.05 - 4.62	ND	

### Final Approval

	Sam Smith 11Dec2023 02:43:00 PM MST		Karen Winternheimer 11Dec2023 02:48:00 PM MST
PREPARED BY / DATE		APPROVED BY / DATE	

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### Pesticides


Test ID: T000264333

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	369 - 2756	ND		Malathion	300 - 2705	ND
Acephate	40 - 2759	ND		Metalaxyl	42 - 2722	ND
Acetamiprid	43 - 2717	ND		Methiocarb	38 - 2766	ND
Azoxystrobin	45 - 2715	ND		Methomyl	41 - 2793	ND
Bifenazate	38 - 2712	ND		MGK 264 1	156 - 1616	ND
Boscalid	46 - 2722	ND		MGK 264 2	109 - 1091	ND
Carbaryl	43 - 2699	ND		Myclobutanil	52 - 2695	ND
Carbofuran	45 - 2694	ND		Naled	48 - 2703	ND
Chlorantraniliprole	43 - 2754	ND		Oxamyl	42 - 2788	ND
Chlorpyrifos	29 - 2786	ND		Paclobutrazol	41 - 2700	ND
Clofentezine	291 - 2740	ND		Permethrin	299 - 2784	ND
Diazinon	288 - 2718	ND		Phosmet	42 - 2607	ND
Dichlorvos	276 - 2755	ND		Prophos	295 - 2755	ND
Dimethoate	41 - 2731	ND		Propoxur	44 - 2707	ND
E-Fenpyroximate	292 - 2790	ND		Pyridaben	310 - 2748	ND
Etofenprox	43 - 2761	ND		Spinosad A	34 - 2090	ND
Etoxazole	290 - 2679	ND		Spinosad D	73 - 669	ND
Fenoxycarb	22 - 2752	ND		Spiromesifen	248 - 2750	ND
Fipronil	53 - 2782	ND		Spirotetramat	282 - 2756	ND
Flonicamid	45 - 2796	ND		Spiroxamine 1	16 - 1022	ND
Fludioxonil	302 - 2692	ND		Spiroxamine 2	24 - 1608	ND
Hexythiazox	40 - 2782	ND		Tebuconazole	297 - 2700	ND
Imazalil	264 - 2756	ND		Thiacloprid	43 - 2749	ND
Imidacloprid	40 - 2801	ND		Thiamethoxam	44 - 2773	ND
Kresoxim-methyl	41 - 2740	ND		Trifloxystrobin	46 - 2713	ND

### Final Approval

  
Karen Winternheimer  
13Dec2023  
09:05:00 AM MST  
PREPARED BY / DATE

  
Sam Smith  
13Dec2023  
09:07:00 AM MST  
APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/035c675f-1b10-43c1-97e3-6b327ec950c6>

### 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<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 100,000 CFU.

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. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



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