

Prepared for:  
**Venn Brewing Company**  
3550 East 46th St #140  
Minneapolis, MN USA 55406


## Zenn Tenn Clusterfruit


Batch ID or Lot Number: <b>ITHC0013</b>	Test: <b>Potency</b>	Reported: <b>03Jan2024</b>	USDA License: N/A
Matrix: Unit	Test ID: T000266041	Started: 02Jan2024	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 29Dec2023	Status: N/A

## Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.242	0.654	ND	ND	# of Servings = 1, Sample Weight=485g
Cannabichromenic Acid (CBCA)	0.221	0.598	ND	ND	
Cannabidiol (CBD)	0.632	1.748	ND	ND	
Cannabidiolic Acid (CBDA)	0.648	1.793	ND	ND	
Cannabidivarin (CBDV)	0.149	0.413	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.270	0.748	ND	ND	
Cannabigerol (CBG)	0.137	0.371	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.574	1.553	ND	ND	
Cannabinol (CBN)	0.179	0.485	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.392	1.059	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.684	1.850	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.622	1.680	10.750	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.551	1.489	ND	ND	
Tetrahydrocannabivarin (THCV)	0.125	0.338	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.486	1.313	ND	ND	
<b>Total Cannabinoids</b>			<b>10.750</b>	<b>0.00</b>	
Total Potential THC			10.750	0.00	
Total Potential CBD			ND	ND	

## Final Approval

  
Samantha Smith  
03Jan2024  
03:29:00 PM MST  
PREPARED BY / DATE

  
Karen Winternheimer  
03Jan2024  
03:30:00 PM MST  
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/b3ffcf1e-75a5-4e2d-94f2-a1aecfeb2a4f>

**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-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  
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**Venn Brewing Company**

3550 East 46th St #140  
Minneapolis, MN USA 55406

**ITHC0013**

Batch ID or Lot Number: <b>Zenn Tenn Clusterfruit</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 2 of 5
Reported: <b>22Dec2023</b>	Started: 22Dec2023	Received: 22Dec2023	


## Pesticides


Test ID: T000265891

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	365 - 2850	ND		Malathion	296 - 2720	ND
Acephate	42 - 2697	ND		Metalaxyl	39 - 2698	ND
Acetamiprid	41 - 2724	ND		Methiocarb	42 - 2709	ND
Azoxystrobin	41 - 2696	ND		Methomyl	40 - 2754	ND
Bifenazate	42 - 2662	ND		MGK 264 1	170 - 1649	ND
Boscalid	37 - 2605	ND		MGK 264 2	115 - 1109	ND
Carbaryl	42 - 2643	ND		Myclobutanil	72 - 2717	ND
Carbofuran	42 - 2668	ND		Naled	44 - 2578	ND
Chlorantraniliprole	47 - 2712	ND		Oxamyl	40 - 2742	ND
Chlorpyrifos	22 - 2824	ND		Paclobutrazol	40 - 2620	ND
Clofentezine	286 - 2739	ND		Permethrin	266 - 2818	ND
Diazinon	274 - 2706	ND		Phosmet	42 - 2573	ND
Dichlorvos	206 - 2817	ND		Prophos	279 - 2726	ND
Dimethoate	42 - 2753	ND		Propoxur	41 - 2627	ND
E-Fenpyroximate	252 - 2816	ND		Pyridaben	298 - 2816	ND
Etofenprox	45 - 2800	ND		Spinosad A	33 - 2034	ND
Etoxazole	296 - 2715	ND		Spinosad D	67 - 684	ND
Fenoxycarb	47 - 2694	ND		Spiromesifen	274 - 2821	ND
Fipronil	40 - 2846	ND		Spirotetramat	270 - 2754	ND
Flonicamid	50 - 2811	ND		Spiroxamine 1	15 - 1002	ND
Fludioxonil	293 - 2731	ND		Spiroxamine 2	25 - 1561	ND
Hexythiazox	40 - 2850	ND		Tebuconazole	268 - 2629	ND
Imazalil	287 - 2684	ND		Thiacloprid	42 - 2734	ND
Imidacloprid	40 - 2717	ND		Thiamethoxam	43 - 2762	ND
Kresoxim-methyl	38 - 2748	ND		Trifloxystrobin	42 - 2672	ND

## Final Approval

 Karen Winternheimer  
24Dec2023  
11:01:00 AM MST  
PREPARED BY / DATE

 Sam Smith  
24Dec2023  
11:04:00 AM MST  
APPROVED BY / DATE

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Minneapolis, MN USA 55406

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Reported: <b>22Dec2023</b>	Started: 22Dec2023	Received: 22Dec2023	


## Residual Solvents

Test ID: T000265894

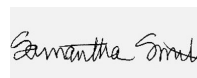
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	74 - 1484	ND	
Butanes (Isobutane, n-Butane)	146 - 2920	ND	
Methanol	51 - 1025	ND	
Pentane	80 - 1592	ND	
Ethanol	81 - 1627	527	
Acetone	83 - 1668	ND	
Isopropyl Alcohol	90 - 1796	ND	
Hexane	5 - 101	ND	
Ethyl Acetate	86 - 1711	ND	
Benzene	0.2 - 3.3	ND	
Heptanes	81 - 1628	ND	
Toluene	15 - 305	ND	
Xylenes (m,p,o-Xylenes)	112 - 2246	ND	

## Final Approval

 Karen Winterheimer  
26Dec2023  
10:26:00 AM MST

PREPARED BY / DATE

 Sam Smith  
26Dec2023  
10:35:00 AM MST

APPROVED BY / DATE


## Heavy Metals

Test ID: T000265893


Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.05	ND	
Cadmium	0.04 - 4.17	ND	
Mercury	0.04 - 4.36	ND	
Lead	0.04 - 4.14	ND	

## Final Approval

 Sam Smith  
27Dec2023  
03:30:00 PM MST

PREPARED BY / DATE

 Colin Hendrickson  
27Dec2023  
04:23:00 PM MST

APPROVED BY / DATE

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## Microbial Contaminants

Test ID: T000265892

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



Brett Hudson  
29Dec2023  
11:36:00 AM MST



Brianne Maillot  
29Dec2023  
01:02:00 PM MST

PREPARED BY / DATE

APPROVED BY / DATE

## Mycotoxins

Test ID: T000265895

Methods: TM18 (UHPLC-QQ)  
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.12 - 119.34	ND	N/A
Aflatoxin B1	0.92 - 30.81	ND	
Aflatoxin B2	0.92 - 30.96	ND	
Aflatoxin G1	0.98 - 30.81	ND	
Aflatoxin G2	1.04 - 31.14	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

### Final Approval



Sam Smith  
02Jan2024  
10:05:00 AM MST



Karen Winternheimer  
02Jan2024  
10:10:00 AM MST

PREPARED BY / DATE

APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/0165cefe-07af-48d0-9e37-a825c89034b0>

**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.

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