

Prepared for:

**Venn Brewing Company**

3550 East 46th St #140

Minneapolis, MN USA 55406

## Zenn Pacific Punch

Batch ID or Lot Number: <b>ITHC0010</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 6
Reported: <b>30Jun2023</b>	Started: 30Jun2023	Received: 30Jun2023	


## Cannabinoids


Test ID: T000247929

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.217	0.693	ND	ND	# of Servings = 1, Sample Weight=490g
Cannabichromenic Acid (CBCA)	0.199	0.633	ND	ND	
Cannabidiol (CBD)	0.659	1.762	ND	ND	
Cannabidiolic Acid (CBDA)	0.676	1.807	ND	ND	
Cannabidivarin (CBDV)	0.156	0.417	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.282	0.754	ND	ND	
Cannabigerol (CBG)	0.123	0.393	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.516	1.644	ND	ND	
Cannabinol (CBN)	0.161	0.513	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.352	1.122	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.615	1.958	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.558	1.779	7.920	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.495	1.576	ND	ND	
Tetrahydrocannabivarin (THCV)	0.112	0.358	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.436	1.390	ND	ND	
<b>Total Cannabinoids</b>			<b>7.920</b>	<b>0.00</b>	
Total Potential THC			7.920	0.00	
Total Potential CBD			ND	ND	

## Final Approval

  
 Sam Smith  
 30Jun2023  
 03:17:00 PM MDT  
 PREPARED BY / DATE

  
 Karen Winternheimer  
 30Jun2023  
 03:22:00 PM MDT  
 APPROVED BY / DATE

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## Residual Solvents

Test ID: T000247933


Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	92 - 1840	ND	
Butanes (Isobutane, n-Butane)	155 - 3110	ND	
Methanol	60 - 1191	ND	
Pentane	80 - 1610	ND	
Ethanol	105 - 2091	ND	
Acetone	90 - 1802	ND	
Isopropyl Alcohol	108 - 2169	ND	
Hexane	5 - 100	ND	
Ethyl Acetate	94 - 1888	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	85 - 1704	ND	
Toluene	17 - 341	ND	
Xylenes (m,p,o-Xylenes)	136 - 2723	ND	

## Final Approval

  
Sam Smith  
04Jul2023  
08:16:00 AM MDT

PREPARED BY / DATE

  
Karen Winternheimer  
04Jul2023  
08:20:00 AM MDT

APPROVED BY / DATE

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## Microbial Contaminants

Test ID: T000247931

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

  
Brianne Maillot  
05Jul2023  
09:09:00 AM MDT

  
Eden Thompson-Wright  
05Jul2023  
09:26:00 AM MDT

PREPARED BY / DATE

APPROVED BY / DATE


## Heavy Metals


Test ID: T000247932

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.15	ND	
Cadmium	0.04 - 4.29	ND	
Mercury	0.04 - 4.35	ND	
Lead	0.04 - 4.35	ND	

### Final Approval

  
Samantha Smith  
06Jul2023  
07:48:00 AM MDT

  
Karen Winternheimer  
06Jul2023  
07:54:00 AM MDT

PREPARED BY / DATE

APPROVED BY / DATE

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## Mycotoxins


Test ID: T000247934


Methods: TM18 (UHPLC-QQQ)

LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.61 - 138.77	ND	N/A
Aflatoxin B1	1.02 - 34.45	ND	
Aflatoxin B2	0.98 - 34.65	ND	
Aflatoxin G1	1.15 - 34.24	ND	
Aflatoxin G2	0.98 - 34.58	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

## Final Approval

  
 Sam Smith  
 10Jul2023  
 09:01:00 AM MDT  
 PREPARED BY / DATE

  
 Karen Winternheimer  
 10Jul2023  
 09:03:00 AM MDT  
 APPROVED BY / DATE

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## Pesticides


Test ID: T000247930

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)	Dynamic Range (ppb)	Result (ppb)	
Abamectin	365 - 2720	ND	Malathion	274 - 2746	ND
Acephate	43 - 2742	ND	Metalaxyl	40 - 2732	ND
Acetamiprid	41 - 2697	ND	Methiocarb	43 - 2768	ND
Azoxystrobin	42 - 2750	ND	Methomyl	42 - 2744	ND
Bifenazate	41 - 2738	ND	MGK 264 1	168 - 1729	ND
Boscalid	45 - 2779	ND	MGK 264 2	103 - 1086	ND
Carbaryl	42 - 2763	ND	Myclobutanil	44 - 2805	ND
Carbofuran	41 - 2724	ND	Naled	45 - 2772	ND
Chlorantraniliprole	47 - 2795	ND	Oxamyl	44 - 2736	ND
Chlorpyrifos	42 - 2734	ND	Paclobutrazol	43 - 2735	ND
Clofentezine	285 - 2748	ND	Permethrin	297 - 2697	ND
Diazinon	290 - 2732	ND	Phosmet	39 - 2738	ND
Dichlorvos	282 - 2726	ND	Prophos	318 - 2754	ND
Dimethoate	39 - 2704	ND	Propoxur	42 - 2731	ND
E-Fenpyroximate	284 - 2726	ND	Pyridaben	289 - 2678	ND
Etofenprox	39 - 2689	ND	Spinosad A	28 - 2074	ND
Etoxazole	290 - 2691	ND	Spinosad D	62 - 668	ND
Fenoxycarb	31 - 2749	ND	Spiromesifen	271 - 2725	ND
Fipronil	60 - 2615	ND	Spirotetramat	281 - 2815	ND
Flonicamid	44 - 2773	ND	Spiroxamine 1	18 - 1260	ND
Fludioxonil	302 - 2760	ND	Spiroxamine 2	21 - 1567	ND
Hexythiazox	46 - 2690	ND	Tebuconazole	294 - 2756	ND
Imazalil	265 - 2781	ND	Thiacloprid	41 - 2698	ND
Imidacloprid	52 - 2772	ND	Thiamethoxam	42 - 2725	ND
Kresoxim-methyl	44 - 2736	ND	Trifloxystrobin	40 - 2710	ND

## Final Approval

  
 Karen Winternheimer  
 06Jul2023  
 02:08:00 PM MDT  
 PREPARED BY / DATE

  
 Sam Smith  
 11Jul2023  
 01:02:00 PM MDT  
 APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/0bd1d0b9-41fb-4884-8ff2-813dea79da98>

**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 Accredited by A2LA. 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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