

Prepared for:

**Venn Brewing Company**

3550 East 46th St #140

Minneapolis, MN USA 55406

## Zenn Paloma

Batch ID or Lot Number: <b>ITHC0009</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 5
Reported: <b>26Jun2023</b>	Started: 26Jun2023	Received: 26Jun2023	


## Cannabinoids

Test ID: T000247451


Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.226	0.707	ND	ND	# of Servings = 1, Sample Weight=485g
Cannabichromenic Acid (CBCA)	0.207	0.646	ND	ND	
Cannabidiol (CBD)	0.616	1.784	ND	ND	
Cannabidiolic Acid (CBDA)	0.632	1.829	ND	ND	
Cannabidivarin (CBDV)	0.146	0.422	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.264	0.763	ND	ND	
Cannabigerol (CBG)	0.128	0.401	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.537	1.677	ND	ND	
Cannabinol (CBN)	0.167	0.523	ND	ND	
Cannabinolic Acid (CBNA)	0.366	1.144	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.639	1.998	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.580	1.815	5.510	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.514	1.608	ND	ND	
Tetrahydrocannabivarin (THCV)	0.117	0.365	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.454	1.418	ND	ND	
<b>Total Cannabinoids</b>			<b>5.510</b>	<b>0.00</b>	
Total Potential THC			5.510	0.00	
Total Potential CBD			ND	ND	

## Final Approval

 Sam Smith  
26Jun2023  
03:56:00 PM MDT

PREPARED BY / DATE

 Karen Winternheimer  
26Jun2023  
03:58:00 PM MDT

APPROVED BY / DATE

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## Residual Solvents

Test ID: T000247455

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	106 - 2129	ND	
Butanes (Isobutane, n-Butane)	214 - 4289	ND	
Methanol	65 - 1292	ND	
Pentane	106 - 2117	ND	
Ethanol	110 - 2193	1499	
Acetone	104 - 2083	ND	
Isopropyl Alcohol	109 - 2173	ND	
Hexane	6 - 125	ND	
Ethyl Acetate	107 - 2137	ND	
Benzene	0.2 - 4.4	ND	
Heptanes	107 - 2133	ND	
Toluene	19 - 380	ND	
Xylenes (m,p,o-Xylenes)	143 - 2860	ND	

## Final Approval

 Sam Smith  
29Jun2023  
09:41:00 AM MDT

PREPARED BY / DATE

 Karen Winternheimer  
29Jun2023  
09:45:00 AM MDT

APPROVED BY / DATE

Prepared for:  
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## Pesticides


Test ID: T000247452

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	308 - 2726	ND		Malathion	288 - 2702	ND
Acephate	43 - 2716	ND		Metalaxyl	46 - 2683	ND
Acetamiprid	42 - 2723	ND		Methiocarb	42 - 2713	ND
Azoxystrobin	46 - 2669	ND		Methomyl	42 - 2746	ND
Bifenazate	44 - 2667	ND		MGK 264 1	165 - 1708	ND
Boscalid	34 - 2701	ND		MGK 264 2	103 - 1089	ND
Carbaryl	39 - 2722	ND		Myclobutanil	45 - 2719	ND
Carbofuran	43 - 2710	ND		Naled	44 - 2717	ND
Chlorantraniliprole	43 - 2726	ND		Oxamyl	41 - 2764	ND
Chlorpyrifos	39 - 2759	ND		Paclobutrazol	46 - 2715	ND
Clofentezine	288 - 2741	ND		Permethrin	275 - 2730	ND
Diazinon	282 - 2686	ND		Phosmet	46 - 2656	ND
Dichlorvos	285 - 2755	ND		Prophos	293 - 2688	ND
Dimethoate	41 - 2731	ND		Propoxur	43 - 2714	ND
E-Fenpyroximate	272 - 2762	ND		Pyridaben	282 - 2760	ND
Etofenprox	43 - 2725	ND		Spinosad A	30 - 2076	ND
Etoazole	278 - 2748	ND		Spinosad D	58 - 670	ND
Fenoxycarb	13 - 2670	ND		Spiromesifen	269 - 2733	ND
Fipronil	60 - 2716	ND		Spirotetramat	284 - 2693	ND
Flonicamid	52 - 2707	ND		Spiroxamine 1	18 - 1200	ND
Fludioxonil	306 - 2679	ND		Spiroxamine 2	24 - 1504	ND
Hexythiazox	40 - 2786	ND		Tebuconazole	287 - 2718	ND
Imazalil	267 - 2685	ND		Thiacloprid	41 - 2710	ND
Imidacloprid	45 - 2814	ND		Thiamethoxam	39 - 2741	ND
Kresoxim-methyl	45 - 2697	ND		Trifloxystrobin	44 - 2705	ND

## Final Approval

  
Karen Winternheimer  
29Jun2023  
10:44:00 AM MDT  
PREPARED BY / DATE

  
Sam Smith  
29Jun2023  
10:46:00 AM MDT  
APPROVED BY / DATE

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## Zenn Paloma

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## Microbial Contaminants

Test ID: T000247453

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 29Jun2023 10:33:00 AM MDT	 Brianne Maillot 29Jun2023 02:52:00 PM MDT
PREPARED BY / DATE	APPROVED BY / DATE

## Heavy Metals

Test ID: T000247454

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.03 - 3.25	ND	
Cadmium	0.05 - 4.67	ND	
Mercury	0.04 - 3.85	ND	
Lead	0.04 - 3.98	ND	

### Final Approval

 Samantha Smith 30Jun2023 10:19:00 AM MDT	 Karen Winternheimer 30Jun2023 10:25:00 AM MDT
PREPARED BY / DATE	APPROVED BY / DATE

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## Mycotoxins


Test ID: T000247456

Methods: TM18 (UHPLC-QQQ)

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.30 - 132.76	ND	N/A
Aflatoxin B1	1.02 - 32.62	ND	
Aflatoxin B2	1.02 - 33.74	ND	
Aflatoxin G1	1.15 - 32.82	ND	
Aflatoxin G2	1.15 - 34.10	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

## Final Approval

  
Sam Smith  
03Jul2023  
08:46:00 AM MDT

PREPARED BY / DATE

  
Karen Winternheimer  
03Jul2023  
08:49:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/98d590a9-1077-435a-bfc1-bdb0ce462129>

## 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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