

Prepared for:
Venn Brewing Company

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


Zenn Tenn Clusterfruit


Batch ID or Lot Number: THC0014	Test: Potency	Reported: 10Aug2023	USDA License: N/A
Matrix: Unit	Test ID: T000252040	Started: 10Aug2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 09Aug2023	Status: N/A

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.193	0.679	ND	ND	# of Servings = 1, Sample Weight=485g
Cannabichromenic Acid (CBCA)	0.177	0.621	ND	ND	
Cannabidiol (CBD)	0.672	1.791	ND	ND	
Cannabidiolic Acid (CBDA)	0.689	1.837	ND	ND	
Cannabidivarin (CBDV)	0.159	0.423	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.287	0.766	ND	ND	
Cannabigerol (CBG)	0.110	0.386	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.459	1.612	ND	ND	
Cannabinol (CBN)	0.143	0.503	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.313	1.100	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.547	1.920	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.497	1.744	11.330	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.440	1.545	ND	ND	
Tetrahydrocannabivarin (THCV)	0.100	0.351	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.388	1.363	ND	ND	
Total Cannabinoids			11.330	0.00	
Total Potential THC			11.330	0.00	
Total Potential CBD			ND	ND	

Final Approval


Samantha Smith
10Aug2023
02:20:00 PM MDT
PREPARED BY / DATE


Karen Winternheimer
10Aug2023
02:25:00 PM MDT
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/634afcc6-01d0-4bb7-ae599f50890b9e26>

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 Accredited by A2LA.



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Zenn Tenn Clusterfruit


Batch ID or Lot Number: THC0014	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 5
Reported: 02Aug2023	Started: 01Aug2023	Received: 31Jul2023	


Mycotoxins

Test ID: T000250965
Methods: TM18 (UHPLC-QQQ)
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.25 - 120.46	ND	N/A
Aflatoxin B1	0.93 - 30.47	ND	
Aflatoxin B2	0.87 - 30.68	ND	
Aflatoxin G1	0.98 - 30.44	ND	
Aflatoxin G2	1.01 - 30.86	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Samantha Smith
02Aug2023
07:17:00 AM MDT
PREPARED BY / DATE



Karen Winternheimer
02Aug2023
07:20:00 AM MDT
APPROVED BY / DATE

Microbial Contaminants

Test ID: T000250962
Methods: TM25 (PCR) TM24, TM26,
TM27 (Culture Plating)

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

Final Approval


Brienne Maillot
03Aug2023
10:19:00 AM MDT
PREPARED BY / DATE


Eden Thompson-Wright
03Aug2023
10:50:00 AM MDT
APPROVED BY / DATE

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Pesticides


Test ID: T000250961

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	405 - 2594	ND		Malathion	303 - 2745	ND
Acephate	38 - 2739	ND		Metalaxyl	43 - 2698	ND
Acetamiprid	41 - 2701	ND		Methiocarb	40 - 2731	ND
Azoxystrobin	46 - 2690	ND		Methomyl	39 - 2736	ND
Bifenazate	42 - 2685	ND		MGK 264 1	185 - 1690	ND
Boscalid	42 - 2763	ND		MGK 264 2	112 - 1093	ND
Carbaryl	38 - 2710	ND		Myclobutanil	30 - 2725	ND
Carbofuran	44 - 2694	ND		Naled	41 - 2674	ND
Chlorantraniliprole	39 - 2719	ND		Oxamyl	40 - 2747	ND
Chlorpyrifos	41 - 2733	ND		Paclobutrazol	43 - 2700	ND
Clofentezine	294 - 2738	ND		Permethrin	307 - 2723	ND
Diazinon	301 - 2710	ND		Phosmet	43 - 2685	ND
Dichlorvos	279 - 2725	ND		Prophos	317 - 2737	ND
Dimethoate	43 - 2691	ND		Propoxur	42 - 2716	ND
E-Fenpyroximate	308 - 2765	ND		Pyridaben	313 - 2703	ND
Etofenprox	43 - 2718	ND		Spinosad A	30 - 2095	ND
Etoxazole	318 - 2725	ND		Spinosad D	72 - 666	ND
Fenoxycarb	42 - 2714	ND		Spiromesifen	302 - 2737	ND
Fipronil	51 - 2692	ND		Spirotetramat	327 - 2733	ND
Flonicamid	43 - 2744	ND		Spiroxamine 1	17 - 1242	ND
Fludioxonil	320 - 2720	ND		Spiroxamine 2	21 - 1511	ND
Hexythiazox	43 - 2750	ND		Tebuconazole	318 - 2716	ND
Imazalil	296 - 2740	ND		Thiacloprid	40 - 2696	ND
Imidacloprid	42 - 2739	ND		Thiamethoxam	39 - 2740	ND
Kresoxim-methyl	44 - 2723	ND		Trifloxystrobin	42 - 2699	ND

Final Approval


 Karen Winternheimer
 03Aug2023
 01:15:00 PM MDT
 PREPARED BY / DATE


 Sam Smith
 03Aug2023
 01:18:00 PM MDT
 APPROVED BY / DATE

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Reported: 02Aug2023	Started: 01Aug2023	Received: 31Jul2023	


Residual Solvents


Test ID: T000250964

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	90 - 1798	ND	
Butanes (Isobutane, n-Butane)	176 - 3529	ND	
Methanol	55 - 1094	ND	
Pentane	89 - 1778	ND	
Ethanol	88 - 1755	399	
Acetone	90 - 1790	ND	
Isopropyl Alcohol	91 - 1816	ND	
Hexane	6 - 111	ND	
Ethyl Acetate	89 - 1780	ND	
Benzene	0.2 - 3.6	ND	
Heptanes	90 - 1796	ND	
Toluene	16 - 323	ND	
Xylenes (m,p,o-Xylenes)	118 - 2359	ND	

Final Approval


Karen Winternheimer
03Aug2023
01:42:00 PM MDT
PREPARED BY / DATE


Sam Smith
03Aug2023
01:46:00 PM MDT
APPROVED BY / DATE


Heavy Metals


Test ID: T000250963

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.70	ND	
Cadmium	0.05 - 4.60	ND	
Mercury	0.05 - 4.80	ND	
Lead	0.05 - 4.64	ND	

Final Approval


Sam Smith
07Aug2023
03:42:00 PM MDT
PREPARED BY / DATE


Karen Winternheimer
07Aug2023
03:45:00 PM MDT
APPROVED BY / DATE

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Batch ID or Lot Number: THC0014	Test: Heavy Metals	Reported: 07Aug2023	USDA License: NA
Matrix: Finished Product	Test ID: T000250963	Started: 07Aug2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 31Jul2023	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.70	ND	
Cadmium	0.05 - 4.60	ND	
Mercury	0.05 - 4.80	ND	
Lead	0.05 - 4.64	ND	

Final Approval


 Sam Smith
 07Aug2023
 03:42:00 PM MDT
 PREPARED BY / DATE


 Karen Winternheimer
 07Aug2023
 03:45:00 PM MDT
 APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/ddc663c5-0f8f-4ebd-8aa0-1f2e08c093de>

Definitions
 ND = None Detected (defined by dynamic range of the method)
 Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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.



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<https://results.botanacor.com/api/v1/coas/uuid/727fd451-fd71-4261-a203-fee153559315>

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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU.

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