

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


Zenn Up Up Down Down


Batch ID or Lot Number: THC0015	Test: Potency	Reported: 24Aug2023	USDA License: N/A
Matrix: Unit	Test ID: T000253910	Started: 24Aug2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 24Aug2023	Status: N/A

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.289	0.679	ND	ND	# of Servings = 1, Sample Weight=485g
Cannabichromenic Acid (CBCA)	0.265	0.621	ND	ND	
Cannabidiol (CBD)	0.727	1.768	ND	ND	
Cannabidiolic Acid (CBDA)	0.745	1.813	ND	ND	
Cannabidivarin (CBDV)	0.172	0.418	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.311	0.756	ND	ND	
Cannabigerol (CBG)	0.164	0.386	0.460	0.00	
Cannabigerolic Acid (CBGA)	0.687	1.612	ND	ND	
Cannabinol (CBN)	0.214	0.503	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.468	1.100	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.818	1.921	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.743	1.744	12.990	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.658	1.546	ND	ND	
Tetrahydrocannabivarin (THCV)	0.149	0.351	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.581	1.363	ND	ND	
Total Cannabinoids			13.450	0.00	
Total Potential THC			12.990	0.00	
Total Potential CBD			ND	ND	

Final Approval


Sam Smith
24Aug2023
02:09:00 PM MDT
PREPARED BY / DATE


Karen Winternheimer
24Aug2023
02:17:00 PM MDT
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/3d086102-3d86-4d48-a189-2efe55a12c56>

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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Minneapolis, MN USA 55406

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Batch ID or Lot Number: THC0015	Test, Test ID and Methods: Various	Matrix: Unit	Page 2 of 6
Reported: 10Aug2023	Started: 10Aug2023	Received: 09Aug2023	

Residual Solvents


Test ID: T000252045

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	104 - 2086	ND	
Butanes (Isobutane, n-Butane)	210 - 4203	ND	
Methanol	65 - 1296	ND	
Pentane	106 - 2121	ND	
Ethanol	105 - 2101	ND	
Acetone	105 - 2109	ND	
Isopropyl Alcohol	109 - 2173	ND	
Hexane	6 - 128	ND	
Ethyl Acetate	108 - 2159	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	109 - 2180	ND	
Toluene	19 - 382	ND	
Xylenes (m,p,o-Xylenes)	141 - 2824	ND	

Final Approval


 Karen Winternheimer
 11Aug2023
 08:49:00 AM MDT
 PREPARED BY / DATE


 Sam Smith
 11Aug2023
 08:50:00 AM MDT
 APPROVED BY / DATE

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Mycotoxins

Test ID: T000252046
Methods: TM18 (UHPLC-QQQ)
LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.34 - 128.26	ND	N/A
Aflatoxin B1	0.96 - 33.09	ND	
Aflatoxin B2	1.02 - 33.18	ND	
Aflatoxin G1	0.96 - 33.15	ND	
Aflatoxin G2	1.76 - 33.21	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Samantha Smith
11Aug2023
11:08:00 AM MDT
PREPARED BY / DATE



Karen Winternheimer
11Aug2023
11:12:00 AM MDT
APPROVED BY / DATE

Microbial Contaminants

Test ID: T000252043
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	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval


Brienne Maillot
13Aug2023
09:18:00 AM MDT
PREPARED BY / DATE


Eden Thompson-Wright
14Aug2023
09:42:00 AM MDT
APPROVED BY / DATE

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Heavy Metals


Test ID: T000252044

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.61	ND	
Cadmium	0.05 - 5.18	ND	
Mercury	0.05 - 4.51	ND	
Lead	0.05 - 5.09	ND	

Final Approval


 Sam Smith
 15Aug2023
 05:30:00 PM MDT
 PREPARED BY / DATE


 Karen Winternheimer
 15Aug2023
 05:33:00 PM MDT
 APPROVED BY / DATE

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Pesticides


Test ID: T000252042

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	202 - 2627	ND		Malathion	282 - 2763	ND
Acephate	44 - 2777	ND		Metalaxyl	44 - 2750	ND
Acetamiprid	41 - 2668	ND		Methiocarb	45 - 2694	ND
Azoxystrobin	45 - 2726	ND		Methomyl	41 - 2701	ND
Bifenazate	43 - 2720	ND		MGK 264 1	174 - 1643	ND
Boscalid	44 - 2702	ND		MGK 264 2	105 - 1078	ND
Carbaryl	39 - 2721	ND		Myclobutanil	54 - 2664	ND
Carbofuran	42 - 2717	ND		Naled	45 - 2741	ND
Chlorantraniliprole	43 - 2673	ND		Oxamyl	43 - 2702	ND
Chlorpyrifos	47 - 2827	ND		Paclobutrazol	45 - 2714	ND
Clofentezine	276 - 2738	ND		Permethrin	285 - 2790	ND
Diazinon	286 - 2754	ND		Phosmet	40 - 2734	ND
Dichlorvos	273 - 2719	ND		Prophos	294 - 2642	ND
Dimethoate	42 - 2677	ND		Propoxur	41 - 2700	ND
E-Fenpyroximate	293 - 2807	ND		Pyridaben	296 - 2749	ND
Etofenprox	42 - 2713	ND		Spinosad A	32 - 2098	ND
Etoxazole	292 - 2764	ND		Spinosad D	63 - 686	ND
Fenoxycarb	41 - 2710	ND		Spiromesifen	278 - 2783	ND
Fipronil	75 - 2626	ND		Spirotetramat	283 - 2754	ND
Flonicamid	48 - 2664	ND		Spiroxamine 1	17 - 1139	ND
Fludioxonil	307 - 2676	ND		Spiroxamine 2	21 - 1531	ND
Hexythiazox	40 - 2769	ND		Tebuconazole	289 - 2738	ND
Imazalil	271 - 2791	ND		Thiacloprid	44 - 2650	ND
Imidacloprid	51 - 2714	ND		Thiamethoxam	43 - 2706	ND
Kresoxim-methyl	47 - 2741	ND		Trifloxystrobin	44 - 2695	ND

Final Approval


Karen Winternheimer
18Aug2023
11:06:00 AM MDT
PREPARED BY / DATE


Sam Smith
18Aug2023
11:10:00 AM MDT
APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/15352a2c-cb0a-4dc7-a2aa-2a8eef2ecf68>

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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