

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.

Duluth, MN USA 55806

C&C Lifted Lemon

Batch ID or Lot Number: 080223-LL	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: 31Jul2023	Started: 31Jul2023	Received: 31Jul2023	


Cannabinoids


Test ID: T000251081

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.176	0.636	ND	ND	# of Servings = 1, Sample Weight=473g
Cannabichromenic Acid (CBCA)	0.161	0.581	ND	ND	
Cannabidiol (CBD)	0.596	1.662	ND	ND	
Cannabidiolic Acid (CBDA)	0.611	1.705	ND	ND	
Cannabidivarin (CBDV)	0.141	0.393	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.255	0.711	ND	ND	
Cannabigerol (CBG)	0.100	0.361	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.418	1.509	ND	ND	
Cannabinol (CBN)	0.130	0.471	ND	ND	
Cannabinolic Acid (CBNA)	0.285	1.030	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.498	1.798	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.452	1.633	5.170	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.400	1.447	ND	ND	
Tetrahydrocannabivarin (THCV)	0.091	0.328	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.353	1.276	ND	ND	
Total Cannabinoids			5.170	0.00	
Total Potential THC			5.170	0.00	
Total Potential CBD			ND	ND	

Final Approval


 Sam Smith
 31Jul2023
 01:35:00 PM MDT
 PREPARED BY / DATE


 Karen Winternheimer
 31Jul2023
 01:40:00 PM MDT
 APPROVED BY / DATE

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Microbial Contaminants


Test ID: T000251083

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
<i>Salmonella</i>	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


Brianne 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: T000251082

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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Heavy Metals


Test ID: T000251084
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


Samantha 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/a3be861e-4e35-4854-85ee-e0fb1b45684d>

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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