SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Prepared for:
Bent Paddle Brewing Co
1912 W Michigan St.
Duluth, MN USA 55806

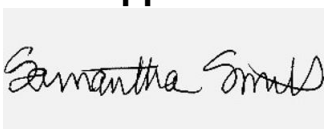
THC+ Mango Tango / Berry Stash

Batch ID or Lot Number:	Test:	Reported:	USDA License:
101623-MT/BS	**Potency**	**13Oct2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000258876	13Oct2023	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	13Oct2023	N/A

Cannabinoids

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.131	0.460	<LOQ	<LOQ	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.120	0.421	ND	ND	
Cannabidiol (CBD)	0.428	1.260	5.110	0.00	
Cannabidiolic Acid (CBDA)	0.439	1.292	ND	ND	
Cannabidivarin (CBDV)	0.101	0.298	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.183	0.539	ND	ND	
Cannabigerol (CBG)	0.074	0.261	0.390	0.00	
Cannabigerolic Acid (CBGA)	0.311	1.092	ND	ND	
Cannabinol (CBN)	0.097	0.341	ND	ND	
Cannabinolic Acid (CBNA)	0.212	0.745	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.371	1.301	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.337	1.182	5.060	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.298	1.047	ND	ND	
Tetrahydrocannabivarin (THCV)	0.068	0.238	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.263	0.923	ND	ND	
Total Cannabinoids			**10.560**	**0.00**	
Total Potential THC			5.060	0.00	
Total Potential CBD			5.110	0.00	

Final Approval



Sam Smith
13Oct2023
01:10:00 PM MDT

PREPARED BY / DATE

Karen Winternheimer
13Oct2023
01:35:00 PM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/1bfacd4c-774c-4afd-8003-366106f0f06e

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)).

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101623 - MT/BS	Various	Unit	
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11Oct2023	11Oct2023	11Oct2023	

Microbial Contaminants

Test ID: T000258614
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

Eden Thompson-Wright
15Oct2023
10:20:00 AM MDT
PREPARED BY / DATE

Brianne Maillot
16Oct2023
10:21:00 AM MDT
APPROVED BY / DATE

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Pesticides

Test ID: T000258613
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	232 - 2668	ND	Malathion	298 - 2717	ND
Acephate	45 - 2757	ND	Metalaxyl	46 - 2726	ND
Acetamiprid	44 - 2726	ND	Methiocarb	42 - 2729	ND
Azoxystrobin	44 - 2727	ND	Methomyl	42 - 2741	ND
Bifenazate	45 - 2726	ND	MGK 264 1	153 - 1675	ND
Boscalid	40 - 2727	ND	MGK 264 2	94 - 1077	ND
Carbaryl	44 - 2726	ND	Myclobutanil	46 - 2702	ND
Carbofuran	45 - 2723	ND	Naled	47 - 2756	ND
Chlorantraniliprole	45 - 2718	ND	Oxamyl	41 - 2755	ND
Chlorpyrifos	36 - 2645	ND	Paclobutrazol	46 - 2709	ND
Clofentezine	281 - 2725	ND	Permethrin	283 - 2669	ND
Diazinon	285 - 2742	ND	Phosmet	43 - 2716	ND
Dichlorvos	283 - 2767	ND	Prophos	277 - 2691	ND
Dimethoate	42 - 2732	ND	Propoxur	42 - 2734	ND
E-Fenpyroximate	286 - 2691	ND	Pyridaben	278 - 2628	ND
Etofenprox	44 - 2656	ND	Spinosad A	33 - 2095	ND
Etoxazole	284 - 2656	ND	Spinosad D	63 - 658	ND
Fenoxycarb	49 - 2730	ND	Spiromesifen	262 - 2661	ND
Fipronil	39 - 2804	ND	Spirotetramat	295 - 2798	ND
Flonicamid	39 - 2730	ND	Spiroxamine 1	20 - 1202	ND
Fludioxonil	318 - 2731	ND	Spiroxamine 2	25 - 1522	ND
Hexythiazox	39 - 2641	ND	Tebuconazole	277 - 2704	ND
Imazalil	276 - 2745	ND	Thiacloprid	43 - 2718	ND
Imidacloprid	44 - 2768	ND	Thiamethoxam	44 - 2747	ND
Kresoxim-methyl	43 - 2758	ND	Trifloxystrobin	44 - 2712	ND

Final Approval

Samantha Smith
Sam Smith
17Oct2023
10:33:00 AM MDT
PREPARED BY / DATE

K Winternheimer
Karen Winternheimer
17Oct2023
10:39:00 AM MDT
APPROVED BY / DATE

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Heavy Metals

Test ID: T000258615
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.05 - 4.57	ND	
Cadmium	0.05 - 4.50	ND	
Mercury	0.05 - 4.77	ND	
Lead	0.05 - 4.63	ND	

Final Approval

Sam Smith
17Oct2023
07:35:00 AM MDT
PREPARED BY / DATE

Karen Winternheimer
17Oct2023
07:39:00 AM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/4b2c1589-7cc0-485c-859d-c30eedac6aa2

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: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 100,000 CFU.

Cert #4329.02
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