

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.

Duluth, MN USA 55806

THC+ Mango Tangerine

Batch ID or Lot Number: 030623	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 3
Reported: 07Mar2023	Started: 07Mar2023	Received: 07Mar2023	

Cannabinoids

Test ID: T000237660

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.154	0.494	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.141	0.452	ND	ND	
Cannabidiol (CBD)	0.416	1.319	2.770	0.00	
Cannabidiolic Acid (CBDA)	0.426	1.352	ND	ND	
Cannabidivarin (CBDV)	0.098	0.312	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.178	0.564	ND	ND	
Cannabigerol (CBG)	0.088	0.280	ND	ND	
Cannabigerolic Acid (CBGA)	0.366	1.172	ND	ND	
Cannabinol (CBN)	0.114	0.366	ND	ND	
Cannabinolic Acid (CBNA)	0.250	0.800	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.436	1.397	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.396	1.268	4.380	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.351	1.124	ND	ND	
Tetrahydrocannabivarin (THCV)	0.080	0.255	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.309	0.991	ND	ND	
Total Cannabinoids			7.150	0.00	
Total Potential THC			4.380	0.00	
Total Potential CBD			2.770	0.00	

Final Approval


 Sam Smith
 07Mar2023
 03:47:00 PM MST

PREPARED BY / DATE


 Karen Winternheimer
 07Mar2023
 03:50:00 PM MST

APPROVED BY / DATE

Heavy Metals

Test ID: T000237663

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.21	ND	
Cadmium	0.04 - 4.38	ND	
Mercury	0.04 - 4.37	ND	
Lead	0.04 - 4.42	ND	

Final Approval


 Sam Smith
 09Mar2023
 09:56:00 AM MST

PREPARED BY / DATE


 Karen Winternheimer
 09Mar2023
 10:09:00 AM MST

APPROVED BY / DATE

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Pesticides

Test ID: T000237661
Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	287 - 2706	ND		Malathion	287 - 2728	ND
Acephate	42 - 2791	ND		Metalaxyl	42 - 2738	ND
Acetamiprid	42 - 2774	ND		Methiocarb	43 - 2757	ND
Azoxystrobin	43 - 2724	ND		Methomyl	43 - 2799	ND
Bifenazate	45 - 2727	ND		MGK 264 1	168 - 1649	ND
Boscalid	50 - 2758	ND		MGK 264 2	118 - 1130	ND
Carbaryl	41 - 2727	ND		Myclobutanil	36 - 2729	ND
Carbofuran	45 - 2722	ND		Naled	49 - 2737	ND
Chlorantraniliprole	43 - 2784	ND		Oxamyl	42 - 2801	ND
Chlorpyrifos	47 - 2894	ND		Paclobutrazol	45 - 2726	ND
Clofentezine	279 - 2736	ND		Permethrin	292 - 2741	ND
Diazinon	281 - 2750	ND		Phosmet	45 - 2684	ND
Dichlorvos	263 - 2763	ND		Prophos	286 - 2754	ND
Dimethoate	44 - 2762	ND		Propoxur	44 - 2733	ND
E-Fenpyroximate	288 - 2879	ND		Pyridaben	299 - 2820	ND
Etofenprox	47 - 2664	ND		Spinosad A	36 - 2225	ND
Etoxazole	288 - 2838	ND		Spinosad D	50 - 520	ND
Fenoxycarb	45 - 2716	ND		Spiromesifen	276 - 2878	ND
Fipronil	47 - 2714	ND		Spirotetramat	284 - 2742	ND
Flonicamid	48 - 2864	ND		Spiroxamine 1	19 - 1180	ND
Fludioxonil	310 - 2748	ND		Spiroxamine 2	23 - 1563	ND
Hexythiazox	40 - 2838	ND		Tebuconazole	278 - 2722	ND
Imazalil	273 - 2749	ND		Thiacloprid	45 - 2785	ND
Imidacloprid	44 - 2758	ND		Thiamethoxam	42 - 2797	ND
Kresoxim-methyl	43 - 2760	ND		Trifloxystrobin	46 - 2732	ND

Final Approval


Karen Winternheimer
10Mar2023
10:32:00 AM MST
PREPARED BY / DATE


Sam Smith
10Mar2023
10:35:00 AM MST
APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000237662

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



Brett Hudson
10Mar2023
04:44:00 PM MST



Brianne Maillot
11Mar2023
05:11:00 PM MST

PREPARED BY / DATE

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/94bfd1b-c3ca-4fec-af81-23f96b4accaf>

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.

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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