

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.
Duluth, MN USA 55806

THC+ Mango Tangerine

Batch ID or Lot Number: 011223	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 3
Reported: 19Jan2023	Started: 18Jan2023	Received: 17Jan2023	


Heavy Metals

Test ID: T000232822


Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.54	ND	
Cadmium	0.04 - 4.38	ND	
Mercury	0.04 - 4.37	ND	
Lead	0.05 - 5.26	ND	

Final Approval


Sam Smith
19Jan2023
10:52:00 AM MST

PREPARED BY / DATE


Karen Winternheimer
19Jan2023
10:56:00 AM MST

APPROVED BY / DATE


Cannabinoids

Test ID: T000232819


Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.162	0.486	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.148	0.444	ND	ND	
Cannabidiol (CBD)	0.419	1.310	5.870	0.00	
Cannabidiolic Acid (CBDA)	0.429	1.344	ND	ND	
Cannabidivarin (CBDV)	0.099	0.310	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.179	0.561	ND	ND	
Cannabigerol (CBG)	0.092	0.276	ND	ND	
Cannabigerolic Acid (CBGA)	0.385	1.152	ND	ND	
Cannabinol (CBN)	0.120	0.360	ND	ND	
Cannabinolic Acid (CBNA)	0.263	0.786	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.458	1.373	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.416	1.247	4.680	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.369	1.105	ND	ND	
Tetrahydrocannabivarin (THCV)	0.084	0.251	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.325	0.974	ND	ND	
Total Cannabinoids			10.550	0.00	
Total Potential THC			4.680	0.00	
Total Potential CBD			5.870	0.00	

Final Approval


Karen Winternheimer
19Jan2023
03:42:00 PM MST

PREPARED BY / DATE


Sam Smith
19Jan2023
03:43:00 PM MST

APPROVED BY / DATE

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Pesticides


Test ID: T000232820

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	320 - 2724	ND		Malathion	293 - 2732	ND
Acephate	43 - 2822	ND		Metalaxyl	41 - 2751	ND
Acetamiprid	41 - 2774	ND		Methiocarb	45 - 2813	ND
Azoxystrobin	44 - 2723	ND		Methomyl	39 - 2813	ND
Bifenazate	46 - 2720	ND		MGK 264 1	174 - 1627	ND
Boscalid	38 - 2883	ND		MGK 264 2	116 - 1134	ND
Carbaryl	43 - 2739	ND		Myclobutanil	55 - 2829	ND
Carbofuran	42 - 2712	ND		Naled	48 - 2745	ND
Chlorantraniliprole	49 - 2785	ND		Oxamyl	39 - 2802	ND
Chlorpyrifos	50 - 2727	ND		Paclobutrazol	50 - 2693	ND
Clofentezine	286 - 2736	ND		Permethrin	166 - 2792	ND
Diazinon	270 - 2724	ND		Phosmet	39 - 2724	ND
Dichlorvos	280 - 2782	ND		Prophos	291 - 2829	ND
Dimethoate	40 - 2774	ND		Propoxur	43 - 2732	ND
E-Fenpyroximate	284 - 2729	ND		Pyridaben	295 - 2726	ND
Etofenprox	43 - 2709	ND		Spinosad A	35 - 2252	ND
Etoxazole	295 - 2729	ND		Spinosad D	48 - 494	ND
Fenoxycarb	40 - 2754	ND		Spiromesifen	284 - 2752	ND
Fipronil	68 - 2730	ND		Spirotetramat	283 - 2758	ND
Flonicamid	55 - 2849	ND		Spiroxamine 1	18 - 1193	ND
Fludioxonil	288 - 2866	ND		Spiroxamine 2	19 - 1620	ND
Hexythiazox	45 - 2748	ND		Tebuconazole	270 - 2766	ND
Imazalil	251 - 2736	ND		Thiacloprid	43 - 2779	ND
Imidacloprid	48 - 2784	ND		Thiamethoxam	34 - 2824	ND
Kresoxim-methyl	43 - 2766	ND		Trifloxystrobin	42 - 2745	ND

Final Approval

 Karen Winternheimer
20Jan2023
09:04:00 AM MST
PREPARED BY / DATE

 Sam Smith
20Jan2023
09:08:00 AM MST
APPROVED BY / DATE

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Microbial Contaminants


Test ID: T000232821

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
20Jan2023
10:44:00 AM MST
PREPARED BY / DATE


Brett Hudson
20Jan2023
04:37:00 PM MST
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/05fb0f98-c86c-4a57-81b5-9146537d4c37>

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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