

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.

Duluth, MN USA 55806

THC+ Mango Tangerine

Batch ID or Lot Number: 020123	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: 08Feb2023	Started: 06Feb2023	Received: 06Feb2023	


Cannabinoids


Test ID: T000234475

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.165	0.480	<LOQ	<LOQ	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.151	0.439	ND	ND	
Cannabidiol (CBD)	0.407	1.357	6.100	0.00	
Cannabidiolic Acid (CBDA)	0.417	1.392	ND	ND	
Cannabidivarin (CBDV)	0.096	0.321	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.174	0.580	ND	ND	
Cannabigerol (CBG)	0.093	0.273	ND	ND	
Cannabigerolic Acid (CBGA)	0.391	1.140	ND	ND	
Cannabinol (CBN)	0.122	0.356	ND	ND	
Cannabinolic Acid (CBNA)	0.266	0.778	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.465	1.358	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.423	1.234	4.890	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.374	1.093	ND	ND	
Tetrahydrocannabivarin (THCV)	0.085	0.248	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.330	0.964	ND	ND	
Total Cannabinoids			10.990	0.00	
Total Potential THC			4.890	0.00	
Total Potential CBD			6.100	0.00	

Final Approval


 Karen Winternheimer
 08Feb2023
 03:59:00 PM MST
 PREPARED BY / DATE


 Sam Smith
 08Feb2023
 04:01:00 PM MST
 APPROVED BY / DATE

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Pesticides


Test ID: T000234476

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	358 - 2647	ND		Malathion	280 - 2717	ND
Acephate	42 - 2759	ND		Metalaxyl	46 - 2718	ND
Acetamiprid	43 - 2753	ND		Methiocarb	41 - 2688	ND
Azoxystrobin	44 - 2729	ND		Methomyl	43 - 2762	ND
Bifenazate	43 - 2722	ND		MGK 264 1	154 - 1645	ND
Boscalid	45 - 2744	ND		MGK 264 2	116 - 1140	ND
Carbaryl	43 - 2719	ND		Myclobutanil	45 - 2763	ND
Carbofuran	44 - 2734	ND		Naled	43 - 2762	ND
Chlorantraniliprole	43 - 2726	ND		Oxamyl	41 - 2766	ND
Chlorpyrifos	53 - 2824	ND		Paclobutrazol	40 - 2726	ND
Clofentezine	275 - 2769	ND		Permethrin	313 - 2795	ND
Diazinon	292 - 2733	ND		Phosmet	44 - 2709	ND
Dichlorvos	275 - 2786	ND		Prophos	312 - 2672	ND
Dimethoate	41 - 2737	ND		Propoxur	41 - 2724	ND
E-Fenpyroximate	293 - 2797	ND		Pyridaben	313 - 2786	ND
Etofenprox	41 - 2790	ND		Spinosad A	35 - 2253	ND
Etoxazole	309 - 2762	ND		Spinosad D	52 - 508	ND
Fenoxycarb	47 - 2690	ND		Spiromesifen	292 - 2770	ND
Fipronil	56 - 2762	ND		Spirotetramat	274 - 2731	ND
Flonicamid	43 - 2825	ND		Spiroxamine 1	16 - 1206	ND
Fludioxonil	318 - 2756	ND		Spiroxamine 2	21 - 1539	ND
Hexythiazox	45 - 2799	ND		Tebuconazole	277 - 2724	ND
Imazalil	288 - 2739	ND		Thiacloprid	44 - 2774	ND
Imidacloprid	41 - 2755	ND		Thiamethoxam	42 - 2785	ND
Kresoxim-methyl	23 - 2807	ND		Trifloxystrobin	44 - 2758	ND

Final Approval

 Karen Winternheimer
10Feb2023
06:26:00 AM MST
PREPARED BY / DATE

 Sam Smith
10Feb2023
06:29:00 AM MST
APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000234477

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
10Feb2023
04:00:00 PM MST



Eden Thompson-Wright
10Feb2023
04:10:00 PM MST

PREPARED BY / DATE

APPROVED BY / DATE

Heavy Metals

Test ID: T000234478

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.06 - 5.87	ND	
Cadmium	0.06 - 5.98	ND	
Mercury	0.06 - 5.83	ND	
Lead	0.06 - 6.02	ND	

Final Approval



Sam Smith
15Feb2023
09:39:00 AM MST



Karen Winternheimer
15Feb2023
09:42:00 AM MST

PREPARED BY / DATE

APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/b11d0dd2-a971-45d4-8a82-b3a4a18be7ea>

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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