

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St.

Duluth, MN USA 55806

THC+ Mango Tangerine

Batch ID or Lot Number: 100422	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 4
Reported: 05Oct2022	Started: 05Oct2022	Received: 05Oct2022	

Cannabinoids

Test ID: T000223532

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.134	0.477	ND	ND	# of Servings = 1, Sample Weight=355g
Cannabichromenic Acid (CBCA)	0.122	0.436	ND	ND	
Cannabidiol (CBD)	0.472	1.270	4.240	0.00	
Cannabidiolic Acid (CBDA)	0.484	1.303	ND	ND	
Cannabidivarin (CBDV)	0.112	0.300	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.202	0.544	ND	ND	
Cannabigerol (CBG)	0.076	0.271	ND	ND	
Cannabigerolic Acid (CBGA)	0.317	1.132	ND	ND	
Cannabinol (CBN)	0.099	0.353	ND	ND	
Cannabinolic Acid (CBNA)	0.216	0.773	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.378	1.349	0.480	0.00	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.343	1.225	5.790	0.00	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.304	1.085	ND	ND	
Tetrahydrocannabivarin (THCV)	0.069	0.246	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.268	0.957	ND	ND	
Total Cannabinoids			10.510	0.03	
Total Potential THC			5.790	0.02	
Total Potential CBD			4.240	0.01	

Final Approval


 Sam Smith
 05Oct2022
 05:34:00 PM MDT
 PREPARED BY / DATE


 Daniel Weidensaul
 05Oct2022
 05:36:00 PM MDT
 APPROVED BY / DATE

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Pesticides

Test ID: T000223533

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	343 - 2633	ND		Malathion	287 - 2726	ND
Acephate	40 - 2824	ND		Metalaxyl	44 - 2746	ND
Acetamiprid	42 - 2765	ND		Methiocarb	41 - 2930	ND
Azoxystrobin	50 - 2663	ND		Methomyl	37 - 2798	ND
Bifenazate	46 - 2726	ND		MGK 264 1	194 - 1566	ND
Boscalid	47 - 2837	ND		MGK 264 2	118 - 1126	ND
Carbaryl	41 - 2776	ND		Myclobutanil	47 - 2800	ND
Carbofuran	44 - 2712	ND		Naled	55 - 2715	ND
Chlorantraniliprole	47 - 2847	ND		Oxamyl	41 - 2767	ND
Chlorpyrifos	51 - 2754	ND		Paclobutrazol	47 - 2699	ND
Clofentezine	310 - 2221	ND		Permethrin	308 - 2693	ND
Diazinon	293 - 2768	ND		Phosmet	48 - 2711	ND
Dichlorvos	273 - 2757	ND		Prophos	280 - 2761	ND
Dimethoate	41 - 2727	ND		Propoxur	44 - 2742	ND
E-Fenpyroximate	288 - 2736	ND		Pyridaben	287 - 2748	ND
Etofenprox	49 - 2709	ND		Spinosad A	42 - 2135	ND
Etoxazole	291 - 2747	ND		Spinosad D	51 - 488	ND
Fenoxycarb	50 - 2707	ND		Spiromesifen	249 - 2787	ND
Fipronil	73 - 2722	ND		Spirotetramat	296 - 2679	ND
Flonicamid	53 - 2734	ND		Spiroxamine 1	17 - 1222	ND
Fludioxonil	293 - 2884	ND		Spiroxamine 2	23 - 1628	ND
Hexythiazox	42 - 2757	ND		Tebuconazole	292 - 2768	ND
Imazalil	248 - 2765	ND		Thiacloprid	42 - 2739	ND
Imidacloprid	51 - 2858	ND		Thiamethoxam	41 - 2737	ND
Kresoxim-methyl	50 - 2750	ND		Trifloxystrobin	53 - 2624	ND

Final Approval


 Sam Smith
 10Oct2022
 07:15:00 PM MDT
 PREPARED BY / DATE


 Karen Winternheimer
 10Oct2022
 07:19:00 PM MDT
 APPROVED BY / DATE

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Heavy Metals

Test ID: T000223535
Methods: TM19 (ICP-MS): Heavy Metals

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.29	ND	
Cadmium	0.05 - 4.58	ND	
Mercury	0.05 - 4.60	ND	
Lead	0.04 - 4.30	ND	

Final Approval


Samantha Smith
10Oct2022
04:45:00 PM MDT

PREPARED BY / DATE


Karen Winternheimer
10Oct2022
04:52:00 PM MDT

APPROVED BY / DATE

Microbial Contaminants

Test ID: T000223534
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


Brett Hudson
10Oct2022
12:11:00 PM MDT

PREPARED BY / DATE


Courtney Richards
10Oct2022
04:58:00 PM MDT

APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/83379ac2-d301-4713-8092-2e72b2f56526>

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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