

Prepared for:

**Bent Paddle Brewing Co**

1912 W Michigan St.

Duluth, MN USA 55806

## THC+ Mango Tangerine

|  |                                       |                        |             |
|--|---------------------------------------|------------------------|-------------|
| Batch ID or Lot Number:<br><b>020923</b> | Test, Test ID and Methods:<br>Various | Matrix:<br>Unit        | Page 1 of 4 |
| Reported:<br><b>16Feb2023</b>            | Started:<br>15Feb2023                 | Received:<br>13Feb2023 |             |

### Cannabinoids

Test ID: T000235196

Methods: TM14 (HPLC-DAD)

|  | LOD (mg) | LOQ (mg) | Result (mg)   | Result (mg/g) | Notes                                       |
|--|----------|----------|---------------|---------------|---|
| Cannabichromene (CBC)                        | 0.162    | 0.514    | <LOQ          | <LOQ          | # of Servings = 1,<br>Sample<br>Weight=355g |
| Cannabichromenic Acid (CBCA)                 | 0.148    | 0.470    | ND            | ND            |   |
| Cannabidiol (CBD)                            | 0.497    | 1.378    | 5.910         | 0.00          |   |
| Cannabidiolic Acid (CBDA)                    | 0.510    | 1.413    | ND            | ND            |   |
| Cannabidivarin (CBDV)                        | 0.118    | 0.326    | ND            | ND            |   |
| Cannabidivarinic Acid (CBDVA)                | 0.213    | 0.590    | ND            | ND            |   |
| Cannabigerol (CBG)                           | 0.092    | 0.292    | ND            | ND            |   |
| Cannabigerolic Acid (CBGA)                   | 0.385    | 1.219    | ND            | ND            |   |
| Cannabinol (CBN)                             | 0.120    | 0.381    | ND            | ND            |   |
| Cannabinolic Acid (CBNA)                     | 0.263    | 0.832    | ND            | ND            |   |
| Delta 8-Tetrahydrocannabinol (Delta 8-THC)   | 0.459    | 1.453    | ND            | ND            |   |
| Delta 9-Tetrahydrocannabinol (Delta 9-THC)   | 0.417    | 1.319    | 5.520         | 0.00          |   |
| Delta 9-Tetrahydrocannabinolic Acid (THCA-A) | 0.369    | 1.169    | ND            | ND            |   |
| Tetrahydrocannabivarin (THCV)                | 0.084    | 0.265    | ND            | ND            |   |
| Tetrahydrocannabivarinic Acid (THCVA)        | 0.326    | 1.031    | ND            | ND            |   |
| <b>Total Cannabinoids</b>                    |          |          | <b>11.430</b> | <b>0.00</b>   |   |
| Total Potential THC                          |          |          | 5.520         | 0.00          |   |
| Total Potential CBD                          |          |          | 5.910         | 0.00          |   |

### Final Approval

  
 Karen Winternheimer  
 17Feb2023  
 06:55:00 PM MST  
 PREPARED BY / DATE

  
 Sam Smith  
 17Feb2023  
 06:56:00 PM MST  
 APPROVED BY / DATE

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## Pesticides

Test ID: T000235197

Methods: TM17

| (LC-QQ LC MS/MS)    | Dynamic Range (ppb) | Result (ppb) |  | Dynamic Range (ppb) | Result (ppb) |    |
|---------------------|---------------------|--------------|--|---------------------|--------------|----|
| Abamectin           | 297 - 2792          | ND           |  | Malathion           | 302 - 2702   | ND |
| Acephate            | 41 - 2796           | ND           |  | Metalaxyl           | 41 - 2735    | ND |
| Acetamiprid         | 44 - 2777           | ND           |  | Methiocarb          | 42 - 2747    | ND |
| Azoxystrobin        | 45 - 2726           | ND           |  | Methomyl            | 40 - 2767    | ND |
| Bifenazate          | 41 - 2722           | ND           |  | MGK 264 1           | 169 - 1608   | ND |
| Boscalid            | 41 - 2792           | ND           |  | MGK 264 2           | 110 - 1130   | ND |
| Carbaryl            | 41 - 2718           | ND           |  | Myclobutanil        | 40 - 2752    | ND |
| Carbofuran          | 45 - 2698           | ND           |  | Naled               | 44 - 2720    | ND |
| Chlorantraniliprole | 41 - 2742           | ND           |  | Oxamyl              | 43 - 2765    | ND |
| Chlorpyrifos        | 38 - 2737           | ND           |  | Paclobutrazol       | 44 - 2698    | ND |
| Clofentezine        | 273 - 2731          | ND           |  | Permethrin          | 288 - 2744   | ND |
| Diazinon            | 291 - 2730          | ND           |  | Phosmet             | 42 - 2720    | ND |
| Dichlorvos          | 263 - 2800          | ND           |  | Prophos             | 295 - 2742   | ND |
| Dimethoate          | 41 - 2748           | ND           |  | Propoxur            | 44 - 2713    | ND |
| E-Fenpyroximate     | 294 - 2737          | ND           |  | Pyridaben           | 310 - 2696   | ND |
| Etofenprox          | 44 - 2698           | ND           |  | Spinosad A          | 35 - 2226    | ND |
| Etoxazole           | 309 - 2713          | ND           |  | Spinosad D          | 52 - 493     | ND |
| Fenoxycarb          | 45 - 2730           | ND           |  | Spiromesifen        | 285 - 2749   | ND |
| Fipronil            | 42 - 2729           | ND           |  | Spirotetramat       | 289 - 2741   | ND |
| Flonicamid          | 50 - 2770           | ND           |  | Spiroxamine 1       | 18 - 1159    | ND |
| Fludioxonil         | 307 - 2813          | ND           |  | Spiroxamine 2       | 4 - 1599     | ND |
| Hexythiazox         | 42 - 2732           | ND           |  | Tebuconazole        | 289 - 2696   | ND |
| Imazalil            | 291 - 2750          | ND           |  | Thiacloprid         | 43 - 2750    | ND |
| Imidacloprid        | 43 - 2771           | ND           |  | Thiamethoxam        | 41 - 2792    | ND |
| Kresoxim-methyl     | 40 - 2749           | ND           |  | Trifloxystrobin     | 46 - 2706    | ND |

## Final Approval

  
 Karen Winternheimer  
 17Feb2023  
 01:56:00 PM MST  
 PREPARED BY / DATE

  
 Sam Smith  
 17Feb2023  
 01:59:00 PM MST  
 APPROVED BY / DATE

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## Heavy Metals

Test ID: T000235199  
Methods: TM19 (ICP-MS): Heavy Metals

| Metals  | Dynamic Range (ppm) | Result (ppm) | Notes |
|---------|---------------------|--------------|-------|
| Arsenic | 0.05 - 4.89         | ND           |       |
| Cadmium | 0.05 - 4.74         | ND           |       |
| Mercury | 0.04 - 4.30         | ND           |       |
| Lead    | 0.04 - 3.87         | ND           |       |

## Final Approval

  
Samantha Simola  
17Feb2023  
01:27:00 PM MST

PREPARED BY / DATE

  
Karen Winternheimer  
17Feb2023  
01:32:00 PM MST

APPROVED BY / DATE

## Microbial Contaminants

Test ID: T000235198  
Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

|                       | Method                | LOD                     | Quantitation Range                        | Result        | Notes   |
|-----------------------|-----------------------|-------------------------|---|---------------|---|
| STEC                  | TM25: PCR             | 10 <sup>0</sup> CFU/25g | NA  | Absent        | Free from visual mold, mildew, and foreign matter |
| Salmonella            | TM25: PCR             | 10 <sup>0</sup> CFU/25g | NA  | Absent        |   |
| Total Yeast and Mold* | TM24: Culture Plating | 10 <sup>1</sup> CFU/g   | 1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> | None Detected |   |
| Total Aerobic Count*  | TM26: Culture Plating | 10 <sup>2</sup> CFU/g   | 1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup> | None Detected |   |
| Total Coliforms*      | TM27: Culture Plating | 10 <sup>1</sup> CFU/g   | 1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> | None Detected |   |

## Final Approval

  
Brienne Maillot  
17Feb2023  
11:04:00 AM MST

PREPARED BY / DATE

  
Phillip Travisano  
17Feb2023  
11:57:00 AM MST

APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/df01dc44-13a9-4914-a99b-7a76bc09ac59>

### 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<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 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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