

Prepared for:

Bent Paddle Brewing Co

1912 W Michigan St. Duluth, MN USA 55806

CBD+ POG

| Batch ID or Lot Number: | Test, Test ID and Methods: | Matrix: | Page 1 of 4 |
|-------------------------|----------------------------|-----------|-------------|
| 092122 | Various | Unit | |
| Reported: | Started: | Received: | |
| 26Sep2022 | 23Sep2022 | 22Sep2022 | |

Heavy Metals

Test ID: T000222179

Methods: TM19 (ICP-MS): Heavy

| Metals | Dynamic Range (ppm) | Result (ppm) | Notes |
|---------|---------------------|--------------|-------|
| Arsenic | 0.04 - 4.13 | ND | |
| Cadmium | 0.04 - 4.31 | ND | |
| Mercury | 0.04 - 4.38 | ND | |
| Lead | 0.04 - 3.78 | ND | |

Final Approval

Daniel Westersand

Daniel Weidensaul 26Sep2022 03:17:00 PM MDT

Samantha Smill

Sam Smith 26Sep2022 03:19:00 PM MDT

PREPARED BY / DATE APPROVED BY / DATE

Microbial

Contaminants

Test ID: T000222178

| Methods: TM25 (PCR) TM24, TM26, | | | Quantitation | | |
|---------------------------------|--------------------------|-------------------------|---|---------------|---|
| TM27 (Culture Plating) | Method | LOD | 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 | — Toreign matter |
| 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 | 10 ¹ CFU/g | 1.0x10 ² - 1.5x10 ⁴ | None Detected | _ |

Final Approval

Make

PREPARED BY / DATE

Jacob Folkerts 26Sep2022 01:57:00 PM MDT **Plating**

Eden Thompson

Eden Thompson-Wright 26Sep2022 03:25:00 PM MDT

APPROVED BY / DATE



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Cannabinoids

| Test ID: T000222176 |
|---------------------|
|---------------------|

| Methods: TM14 (HPLC-DAD) | LOD (mg) | LOQ (mg) | Result (mg) | Result (mg/g) | Notes |
|--|----------|----------|-------------|---------------|--------------------|
| Cannabichromene (CBC) | 0.135 | 0.502 | 0.630 | 0.00 | # of Servings = 1, |
| Cannabichromenic Acid (CBCA) | 0.124 | 0.459 | ND | ND | Sample |
| Cannabidiol (CBD) | 0.455 | 1.277 | 28.570 | 0.10 | Weight=355g |
| Cannabidiolic Acid (CBDA) | 0.466 | 1.309 | ND | ND | |
| Cannabidivarin (CBDV) | 0.108 | 0.302 | 0.160 | 0.00 | |
| Cannabidivarinic Acid (CBDVA) | 0.195 | 0.546 | ND | ND | |
| Cannabigerol (CBG) | 0.077 | 0.285 | 0.210 | 0.00 | |
| Cannabigerolic Acid (CBGA) | 0.321 | 1.192 | ND | ND | |
| Cannabinol (CBN) | 0.100 | 0.372 | 0.100 | 0.00 | |
| Cannabinolic Acid (CBNA) | 0.219 | 0.813 | ND | ND | |
| Delta 8-Tetrahydrocannabinol (Delta 8-THC) | 0.383 | 1.420 | ND | ND | |
| Delta 9-Tetrahydrocannabinol (Delta 9-THC) | 0.348 | 1.289 | 2.220 | 0.00 | |
| Delta 9-Tetrahydrocannabinolic Acid (THCA-A) | 0.308 | 1.142 | ND | ND | |
| Tetrahydrocannabivarin (THCV) | 0.070 | 0.259 | ND | ND | |
| Tetrahydrocannabivarinic Acid (THCVA) | 0.272 | 1.008 | ND | ND | |
| Total Cannabinoids | | | 31.890 | 0.09 | |
| Total Potential THC | | | 2.220 | 0.01 | |
| Total Potential CBD | | | 28.570 | 0.08 | |
| | | | | | |

Final Approval

Daniel Weidensaul 26Sep2022 05:16:00 PM MDT

PREPARED BY / DATE

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Jacob Miller 26Sep2022 05:25:00 PM MDT

APPROVED BY / DATE



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Pesticides

Test ID: T000222177 Methods: TM17

| (LC-QQ LC MS/MS) | Dynamic Range (ppb) | Result (ppb) | |
|---------------------|----------------------------|--------------|--|
| Abamectin | 258 - 2788 | ND | |
| Acephate | 40 - 2777 | ND | |
| Acetamiprid | 43 - 2718 | ND | |
| Azoxystrobin | 50 - 2739 | ND | |
| Bifenazate | 43 - 2730 | ND | |
| Boscalid | 44 - 2781 | ND | |
| Carbaryl | 41 - 2719 | ND | |
| Carbofuran | 42 - 2717 | ND | |
| Chlorantraniliprole | 46 - 2769 | ND | |
| Chlorpyrifos | 67 - 2697 | ND | |
| Clofentezine | 286 - 2773 | ND | |
| Diazinon | 284 - 2700 | ND | |
| Dichlorvos | 270 - 2744 | ND | |
| Dimethoate | 43 - 2711 | ND | |
| E-Fenpyroximate | 299 - 2730 | ND | |
| Etofenprox | 42 - 2730 | ND | |
| Etoxazole | 300 - 2688 | ND | |
| Fenoxycarb | 46 - 2726 | ND | |
| Fipronil | 47 - 2671 | ND | |
| Flonicamid | 44 - 2735 | ND | |
| Fludioxonil | 282 - 2791 | ND | |
| Hexythiazox | 43 - 2709 | ND | |
| lmazalil | 277 - 2761 | ND | |
| Imidacloprid | 41 - 2705 | ND | |
| Kresoxim-methyl | 47 - 2760 | ND | |

| | Dynamic Range (ppb) | Result (ppb) |
|-----------------|----------------------------|--------------|
| Malathion | 297 - 2704 | ND |
| Metalaxyl | 46 - 2717 | ND |
| Methiocarb | 44 - 2745 | ND |
| Methomyl | 41 - 2756 | ND |
| MGK 264 1 | 178 - 1652 | ND |
| MGK 264 2 | 110 - 1142 | ND |
| Myclobutanil | 35 - 2704 | ND |
| Naled | 44 - 2816 | ND |
| Oxamyl | 42 - 2743 | ND |
| Paclobutrazol | 42 - 2742 | ND |
| Permethrin | 291 - 2737 | ND |
| Phosmet | 47 - 2722 | ND |
| Prophos | 304 - 2712 | ND |
| Propoxur | 42 - 2737 | ND |
| Pyridaben | 296 - 2663 | ND |
| Spinosad A | 35 - 2256 | ND |
| Spinosad D | 49 - 498 | ND |
| Spiromesifen | 292 - 2721 | ND |
| Spirotetramat | 289 - 2803 | ND |
| Spiroxamine 1 | 19 - 1185 | ND |
| Spiroxamine 2 | 24 - 1554 | ND |
| Tebuconazole | 286 - 2710 | ND |
| Thiacloprid | 42 - 2716 | ND |
| Thiamethoxam | 41 - 2745 | ND |
| Trifloxystrobin | 45 - 2740 | ND |

Final Approval

PREPARED BY / DATE

Daniel Weidensaul 28Sep2022 03:23:00 PM MDT

Sawantha Small 28Sep2022 03:28:00 PM MDT

APPROVED BY / DATE

Sam Smith



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https://results.botanacor.com/api/v1/coas/uuid/03d7e9ae-6854-402c-a3c8-755cecad1bf1

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: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 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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