

Prepared for:
Surly Brewing Co
4811 Dusharme Dr
Brooklyn Center, MN USA 55429


Cheech & Chong High and Dry Grapefruit Twist


| | | | |
|--|-------------------------------|-------------------------------|----------------------|
| Batch ID or Lot Number: MT004 Best By: 5/21/25 10:12 | Test: Potency | Reported: 05Feb2024 | USDA License: N/A |
| Matrix: Unit | Test ID: T000269913 | Started: 05Feb2024 | Sampler ID: N/A |
| | Method(s): TM14 (HPLC-DAD) | Received: 05Feb2024 | Status: N/A |

Cannabinoids

| | LOD (mg) | LOQ (mg) | Result (mg) | Result (mg/g) | Notes |
|--|----------|----------|--------------|---------------|---|
| Cannabichromene (CBC) | 0.156 | 0.511 | ND | ND | # of Servings = 1, Sample Weight=355g |
| Cannabichromenic Acid (CBCA) | 0.142 | 0.468 | ND | ND | |
| Cannabidiol (CBD) | 0.502 | 1.509 | ND | ND | |
| Cannabidiolic Acid (CBDA) | 0.515 | 1.548 | ND | ND | |
| Cannabidivarin (CBDV) | 0.119 | 0.357 | ND | ND | |
| Cannabidivarinic Acid (CBDVA) | 0.215 | 0.646 | ND | ND | |
| Cannabigerol (CBG) | 0.088 | 0.290 | <LOQ | <LOQ | |
| Cannabigerolic Acid (CBGA) | 0.370 | 1.214 | ND | ND | |
| Cannabinol (CBN) | 0.115 | 0.379 | ND | ND | |
| Cannabinolic Acid (CBNA) | 0.252 | 0.828 | ND | ND | |
| Delta 8-Tetrahydrocannabinol (Delta 8-THC) | 0.440 | 1.446 | ND | ND | |
| Delta 9-Tetrahydrocannabinol (Delta 9-THC) | 0.400 | 1.313 | 5.390 | 0.00 | |
| Delta 9-Tetrahydrocannabinolic Acid (THCA-A) | 0.354 | 1.164 | ND | ND | |
| Tetrahydrocannabivarin (THCV) | 0.080 | 0.264 | ND | ND | |
| Tetrahydrocannabivarinic Acid (THCVA) | 0.313 | 1.026 | ND | ND | |
| Total Cannabinoids | | | 5.390 | 0.00 | |
| Total Potential THC | | | 5.390 | 0.00 | |
| Total Potential CBD | | | ND | ND | |

Final Approval


Sam Smith
05Feb2024
02:27:00 PM MST
PREPARED BY / DATE


Karen Winternheimer
05Feb2024
02:33:00 PM MST
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/f53ec709-c35a-4f9a-bf4e-6eaa3c69c8e7>

Definitions
% = % (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)).

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 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.



Cert #4329.02
f53ec709c35a4f9abf4e6eaa3c69c8e7.1

Prepared for:

Surly Brewing Co

4811 Dusharme Dr
Brooklyn Center, MN USA 55429

C&C Grapefruit MT004

| | | | |
|---|---------------------------------------|-----------------------------|-------------|
| Batch ID or Lot Number: MT004 | Test, Test ID and Methods: Various | Matrix: Finished Product | Page 1 of 6 |
| Reported: 27Nov2023 | Started: 24Nov2023 | Received: 24Nov2023 | |

Microbial Contaminants

Test ID: T000262852

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
27Nov2023
11:18:00 AM MST

PREPARED BY / DATE



Eden Thompson-Wright
27Nov2023
12:15:00 PM MST

APPROVED BY / DATE

Prepared for:

Surly Brewing Co

4811 Dusharme Dr

Brooklyn Center, MN USA 55429

C&C Grapefruit MT004

| | | | |
|---|---------------------------------------|-----------------------------|-------------|
| Batch ID or Lot Number: MT004 | Test, Test ID and Methods: Various | Matrix: Finished Product | Page 3 of 6 |
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Mycotoxins

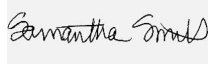
Test ID: T000262855


Methods: TM18 (UHPLC-QQQ)

LCMS/MS: Mycotoxins

| | Dynamic Range (ppb) | Result (ppb) | Notes |
|---------------------------------------|---------------------|--------------|-------|
| Ochratoxin A | 2.30 - 134.28 | ND | N/A |
| Aflatoxin B1 | 0.94 - 32.52 | ND | |
| Aflatoxin B2 | 0.94 - 32.82 | ND | |
| Aflatoxin G1 | 1.01 - 33.01 | ND | |
| Aflatoxin G2 | 1.10 - 33.17 | ND | |
| Total Aflatoxins (B1, B2, G1, and G2) | | ND | |

Final Approval


 Sam Smith
 29Nov2023
 02:03:00 PM MST
 PREPARED BY / DATE


 Karen Winternheimer
 29Nov2023
 02:08:00 PM MST
 APPROVED BY / DATE

Prepared for:

Surly Brewing Co

4811 Dusharme Dr
Brooklyn Center, MN USA 55429

C&C Grapefruit MT004

| | | | |
|---|---------------------------------------|-----------------------------|-------------|
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Residual Solvents


Test ID: T000262854

Methods: TM04 (GC-MS): Residual

| Solvents | Dynamic Range (ppm) | Result (ppm) | Notes |
|-------------------------------|---------------------|--------------|-------|
| Propane | 88 - 1757 | ND | |
| Butanes (Isobutane, n-Butane) | 173 - 3451 | ND | |
| Methanol | 64 - 1282 | ND | |
| Pentane | 94 - 1887 | ND | |
| Ethanol | 101 - 2023 | 1620 | |
| Acetone | 99 - 1981 | ND | |
| Isopropyl Alcohol | 107 - 2131 | ND | |
| Hexane | 6 - 122 | ND | |
| Ethyl Acetate | 103 - 2053 | ND | |
| Benzene | 0.2 - 4.0 | ND | |
| Heptanes | 98 - 1961 | ND | |
| Toluene | 18 - 370 | ND | |
| Xylenes (m,p,o-Xylenes) | 135 - 2699 | ND | |

Final Approval


Karen Winternheimer
30Nov2023
12:48:00 PM MST
PREPARED BY / DATE


Sam Smith
30Nov2023
12:50:00 PM MST
APPROVED BY / DATE


Heavy Metals


Test ID: T000262853

Methods: TM19 (ICP-MS): Heavy

| Metals | Dynamic Range (ppm) | Result (ppm) | Notes |
|---------|---------------------|--------------|-------|
| Arsenic | 0.04 - 4.32 | ND | |
| Cadmium | 0.04 - 4.28 | ND | |
| Mercury | 0.04 - 4.24 | ND | |
| Lead | 0.04 - 4.34 | ND | |

Final Approval


Sam Smith
30Nov2023
07:58:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
30Nov2023
08:00:00 AM MST
APPROVED BY / DATE

Prepared for:

Surly Brewing Co

4811 Dusharme Dr
Brooklyn Center, MN USA 55429

C&C Grapefruit MT004

| | | | |
|---|---------------------------------------|-----------------------------|-------------|
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Pesticides


Test ID: T000262851

Methods: TM17

| (LC-QQ LC MS/MS) | Dynamic Range (ppb) | Result (ppb) | | Dynamic Range (ppb) | Result (ppb) | |
|---------------------|---------------------|--------------|--|---------------------|--------------|----|
| Abamectin | 385 - 3277 | ND | | Malathion | 280 - 2762 | ND |
| Acephate | 43 - 2767 | ND | | Metalaxyl | 46 - 2743 | ND |
| Acetamiprid | 42 - 2720 | ND | | Methiocarb | 47 - 2707 | ND |
| Azoxystrobin | 44 - 2764 | ND | | Methomyl | 44 - 2802 | ND |
| Bifenazate | 44 - 2711 | ND | | MGK 264 1 | 164 - 1610 | ND |
| Boscalid | 41 - 2623 | ND | | MGK 264 2 | 113 - 1089 | ND |
| Carbaryl | 43 - 2708 | ND | | Myclobutanil | 17 - 2632 | ND |
| Carbofuran | 44 - 2682 | ND | | Naled | 46 - 2642 | ND |
| Chlorantraniliprole | 50 - 2579 | ND | | Oxamyl | 43 - 2793 | ND |
| Chlorpyrifos | 50 - 2781 | ND | | Paclobutrazol | 48 - 2595 | ND |
| Clofentezine | 283 - 2691 | ND | | Permethrin | 260 - 2759 | ND |
| Diazinon | 289 - 2727 | ND | | Phosmet | 43 - 2585 | ND |
| Dichlorvos | 283 - 2752 | ND | | Prophos | 303 - 2679 | ND |
| Dimethoate | 43 - 2726 | ND | | Propoxur | 45 - 2707 | ND |
| E-Fenpyroximate | 286 - 2761 | ND | | Pyridaben | 298 - 2830 | ND |
| Etofenprox | 43 - 2781 | ND | | Spinosad A | 32 - 2128 | ND |
| Etoxazole | 287 - 2702 | ND | | Spinosad D | 65 - 685 | ND |
| Fenoxycarb | 30 - 2714 | ND | | Spiromesifen | 273 - 2747 | ND |
| Fipronil | 49 - 2636 | ND | | Spirotetramat | 267 - 2754 | ND |
| Flonicamid | 43 - 2740 | ND | | Spiroxamine 1 | 16 - 1027 | ND |
| Fludioxonil | 315 - 2625 | ND | | Spiroxamine 2 | 28 - 1553 | ND |
| Hexythiazox | 42 - 2753 | ND | | Tebuconazole | 286 - 2594 | ND |
| Imazalil | 263 - 2804 | ND | | Thiacloprid | 43 - 2746 | ND |
| Imidacloprid | 43 - 2776 | ND | | Thiamethoxam | 40 - 2752 | ND |
| Kresoxim-methyl | 45 - 2761 | ND | | Trifloxystrobin | 46 - 2738 | ND |

Final Approval


 Karen Winternheimer
 01Dec2023
 09:36:00 AM MST
 PREPARED BY / DATE


 Sam Smith
 01Dec2023
 09:42:00 AM MST
 APPROVED BY / DATE

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C&C Grapefruit MT004

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<https://results.botanacor.com/api/v1/coas/uuid/d1af2e47-6114-480a-91dd-93545b61a26f>

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 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



Cert #4329.02

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