

PRODUCT NAME: Joy Organic CBD Gummy Mixed Berry (Sleep) **PRODUCT STRENGTH:**

BATCH:

30mg CBD, 1mg THC and 3mg Melatonin / Gummy 220519D, 220519B, 220622C, 230515A

BEST BY DATE: HEMP

5/19/2024

EXTRACT LOT:

Physical Atttributes

| Test | Method | Specification | Results |
|-------------------------|--------------|--|---------|
| Color | Joy Internal | Medium Pink to Red | PASS |
| Odor | Joy Internal | Sweet, passionfruit | PASS |
| Appearance | Joy Internal | Medium pink to red gummies with sugar coating in child proof container | PASS |
| Primary Package Eval. | Joy Internal | Container clean and free of filth. Container caps tight and seals intact | PASS |
| Secondary Package Eval. | Joy Internal | Labeling Compliance Checked, Sufficient cushion material exists. Box taped and secure. | PASS |

Review of Third-Party Analysis

| Panel | Method | Specification | Results* | Pass/Fail |
|-----------------------------------|-----------------|---|-----------|-----------|
| Potency - Total CBD | HPLC-UV DAD | *NLT 10 mg / gummy | 34.023mg | PASS |
| Potency - D9-THC | HPLC-UV DAD | LOQ: <0.01% (broad spectrum) | 1.056mg | PASS |
| Expanded Pesticide Panel | HPLC-QQQ | LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract | Below LOQ | PASS |
| Microbial Escherichia coli (STEC) | PCR | Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram | Absent | PASS |
| Microbial Salmonella | PCR | Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram | Absent | PASS |
| Microbial Yeast and Mold | Culture Plating | Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram | Below LOQ | PASS |
| Microbial Total Coliforms* | Culture Plating | Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram | Below LOQ | PASS |
| Microbial Total Aerobic Count* | Culture Plating | Complies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gram | Below LOQ | PASS |
| Heavy Metals Panel | ICP-MS | Arsenic (As): ≤1.5 ppm Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm | Below LOQ | PASS |
| Mycotoxins | ICP-MS | Total Aflatoxins <20 ppb† Afltoxin B1 < 5 ppb Ochratoxin < 5ppb | Below LOQ | PASS |
| Residual Solvents | GC-HS-MSD | LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract | Below LOQ | PASS |

^{* *}Level of Quantitation, † Parts Per Million † Part Per Billion CFU/g=Colony Forming Units per Gram * Nothing Less Than 10^2=100 CFU

10^3=1,000 CFU

Quality Certified

5/20/2022

Date

Title



Prepared for:

OPEN BOOK EXTRACTS

317 LUCY GARRETT ROAD ROXBORO, NC USA 27574

30mg FS Mixed Berry + CBN & Melatonin

| Batch ID or Lot Number: | Test, Test ID and Methods: | Matrix: | Page 1 of 5 |
|-------------------------|----------------------------|-------------|-------------|
| 631 | Various | Concentrate | |
| Reported: | Started: | Received: | |
| 19May2022 | 02May2022 | 02May2022 | |

Cannabinoids - Colorado Compliance

Test ID: T000204110

Methods: TM14 (HPLC-DAD): Potency - Standard

| Cannabinoid Analysis | LOD (%) | LOQ (%) | Result (%) | Result (mg/g) | Notes |
|--|---------|----------------|------------|---------------|------------------------------------|
| Cannabichromene (CBC) | 0.008 | 0.024 | 0.035 | 0.35 | Amendment to |
| Cannabichromenic Acid (CBCA) | 0.007 | 0.022 | ND | ND | certificate |
| Cannabidiol (CBD) | 0.018 | 0.061 | 1.031 | 10.31 | T000204110 issued |
| Cannabidiolic Acid (CBDA) | 0.018 | 0.063 | ND | ND | on 02May2022, batch ID updated. |
| Cannabidivarin (CBDV) | 0.004 | 0.015 | 0.009* | 0.09* | batch ib upuateu. |
| Cannabidivarinic Acid (CBDVA) | 0.008 | 0.026 | ND | ND | |
| Cannabigerol (CBG) | 0.004 | 0.013 | 0.023 | 0.23 | |
| Cannabigerolic Acid (CBGA) | 0.019 | 0.056 | ND | ND | |
| Cannabinol (CBN) | 0.006 | 0.018 | 0.119 | 1.19 | |
| Cannabinolic Acid (CBNA) | 0.013 | 0.038 | ND | ND | |
| Delta 8-Tetrahydrocannabinol (Delta 8-THC) | 0.022 | 0.067 | ND | ND | |
| Delta 9-Tetrahydrocannabinol (Delta 9-THC) | 0.020 | 0.061 | 0.032 | 0.32 | |
| Delta 9-Tetrahydrocannabinolic Acid (THCA-A) | 0.018 | 0.054 | ND | ND | |
| Tetrahydrocannabivarin (THCV) | 0.004 | 0.012 | ND | ND | |
| Tetrahydrocannabivarinic Acid (THCVA) | 0.016 | 0.048 | ND | ND | |
| Total Cannabinoids | | | 1.249 | 12.49 | |
| Total Potential THC | | | 0.032 | 0.32 | |
| Total Potential CBD | | | 1.031 | 10.31 | |

Final Approval

PREPARED BY / DATE

Ryan Weems 19May2022 03:11:00 PM MDT

Sawantha Small 19May2022 03:19:00 PM MDT

Sam Smith

APPROVED BY / DATE

Heavy Metals -Colorado Compliance

Test ID: T000204113

Methods: TM19 (ICP-MS): Heavy

| Metals | Dynamic Range (ppm) | Result (ppm) | Not |
|---------|---------------------|--------------|--------------|
| Arsenic | 0.04 - 4.30 | ND | Ame |
| Cadmium | 0.04 - 4.16 | ND | T000 bato |
| Mercury | 0.06 - 5.73 | ND | |
| Lead | 0.04 - 4.07 | ND | |

nendment to certificate 00204113 issued on 03May2022, tch ID updated.

Final Approval

PREPARED BY / DATE

Ryan Weems 19May2022 01:43:00 PM MDT



Sam Smith 19May2022 02:17:00 PM MDT



Prepared for:

OPEN BOOK EXTRACTS

317 LUCY GARRETT ROAD ROXBORO, NC USA 27574

30mg FS Mixed Berry + CBN & Melatonin

| Batch ID or Lot Number: | Test, Test ID and Methods: | Matrix: | Page 3 of 5 |
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| 631 | Various | Concentrate | |
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| 19May2022 | 02May2022 | 02May2022 | |

Pesticides

Test ID: T000204111 Methods: TM17

| (LC-QQ LC MS/MS) | Dynamic Range (ppb) | Result (ppb) | |
|---------------------|----------------------------|--------------|--|
| Abamectin | 370 - 2591 | ND | |
| Acephate | 43 - 2785 | ND | |
| Acetamiprid | 39 - 2764 | ND | |
| Azoxystrobin | 50 - 2751 | ND | |
| Bifenazate | 38 - 2689 | ND | |
| Boscalid | 41 - 2829 | ND | |
| Carbaryl | 39 - 2732 | ND | |
| Carbofuran | 43 - 2727 | ND | |
| Chlorantraniliprole | 57 - 2716 | ND | |
| Chlorpyrifos | 41 - 2676 | ND | |
| Clofentezine | 290 - 2773 | ND | |
| Diazinon | 266 - 2710 | ND | |
| Dichlorvos | 278 - 2799 | ND | |
| Dimethoate | 46 - 2748 | ND | |
| E-Fenpyroximate | 279 - 2765 | ND | |
| Etofenprox | 44 - 2712 | ND | |
| Etoxazole | 303 - 2667 | ND | |
| Fenoxycarb | 32 - 2691 | ND | |
| Fipronil | 10 - 2618 | ND | |
| Flonicamid | 49 - 2710 | ND | |
| Fludioxonil | 268 - 2761 | ND | |
| Hexythiazox | 46 - 2678 | ND | |
| Imazalil | 273 - 2705 | ND | |
| Imidacloprid | 44 - 2772 | ND | |
| Kresoxim-methyl | 37 - 2663 | ND | |

| | Dynamic Range (ppb) | Result (ppb) |
|-----------------|----------------------------|--------------|
| Malathion | 276 - 2732 | ND |
| Metalaxyl | 43 - 2677 | ND |
| Methiocarb | 45 - 2770 | ND |
| Methomyl | 41 - 2768 | ND |
| MGK 264 1 | 164 - 1632 | ND |
| MGK 264 2 | 115 - 1148 | ND |
| Myclobutanil | 35 - 2826 | ND |
| Naled | 50 - 2755 | ND |
| Oxamyl | 39 - 2787 | ND |
| Paclobutrazol | 40 - 2708 | ND |
| Permethrin | 281 - 2618 | ND |
| Phosmet | 42 - 2702 | ND |
| Prophos | 265 - 2783 | ND |
| Propoxur | 42 - 2732 | ND |
| Pyridaben | 298 - 2651 | ND |
| Spinosad A | 33 - 2264 | ND |
| Spinosad D | 52 - 487 | ND |
| Spiromesifen | 302 - 2674 | ND |
| Spirotetramat | 273 - 2683 | ND |
| Spiroxamine 1 | 18 - 1194 | ND |
| Spiroxamine 2 | 25 - 1593 | ND |
| Tebuconazole | 284 - 2681 | ND |
| Thiacloprid | 42 - 2776 | ND |
| Thiamethoxam | 48 - 2749 | ND |
| Trifloxystrobin | 43 - 2768 | ND |

Final Approval

PREPARED BY / DATE

Ryan Weems 19May2022 02:05:00 PM MDT

Samantha Smid 19May2022 02:30:00 PM MDT

Sam Smith



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317 LUCY GARRETT ROAD ROXBORO, NC USA 27574

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| 19May2022 | 02May2022 | 02May2022 | |

Microbial Contaminants -Colorado Compliance

Test ID: T000204112

Methods: TM25 (qPCR) TM24, TM26,

| TM27 (Culture Plating): Microbial | | | Quantitation | |
|-----------------------------------|--------------------------|-------------------------|---|---------------|
| (Colorado Panel) | Method | LOD | Range | Result |
| STEC | TM25: PCR | 10 ⁰ CFU/25g | NA | Absent |
| 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 |

Notes

Free from visual mold, mildew, and foreign matter Amendment to report T000204112 for batch ID correction. SCH 19May2022

Final Approval

PREPARED BY / DATE

Sarah Henning 19May2022 03:28:00 PM MDT

Carly Bade

Carly Bader 19May2022 03:38:00 PM MDT

APPROVED BY / DATE



https://results.botanacor.com/api/v1/coas/uuid/2849a066-1630-4919-9385-6b750467906a

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 Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC. 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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317 LUCY GARRETT ROAD ROXBORO, NC USA 27574

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| 19May2022 | 02May2022 | 02May2022 | |

Mycotoxins - Colorado Compliance

Test ID: T000204115

Methods: TM18 (UHPLC-QQQ

| LCMS/MS): Mycotoxins | Dynamic Range (ppb) | Result (ppb) | Notes |
|----------------------------------|---------------------|--------------|--------------------|
| Ochratoxin A | 3.47 - 129.14 | ND | Amendi |
| Aflatoxin B1 | 1.10 - 33.19 | ND | ———— 05May2 N/A |
| Aflatoxin B2 | 1.20 - 33.12 | ND | |
| Aflatoxin G1 | 1.17 - 32.96 | ND | |
| Aflatoxin G2 | 1.26 - 33.54 | ND | |
| Total Aflatoxins (B1, B2, G1, ar | nd G2) | ND | |

Amendment to T000204115 issued 05May2022 to correct batch ID. N/A

Final Approval

Samantha Smoll

PREPARED BY / DATE

Sam Smith 19May2022

12:11:00 PM MDT

Ryan Weems 19May2022



Prepared for:

OPEN BOOK EXTRACTS

317 LUCY GARRETT ROAD ROXBORO, NC USA 27574

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| 19May2022 | 02May2022 | 02May2022 | |

Residual Solvents -Colorado Compliance

Test ID: T000204114

Methods: TM04 (GC-MS): Residual

| Solvents | Dynamic Range (ppm) | Result (ppm) | Notes |
|-------------------------------|---------------------|--------------|---|
| Propane | 56 - 1120 | ND | Amendment to certificate |
| Butanes (Isobutane, n-Butane) | 119 - 2370 | ND | T000204114 issued on 05May2022, batch ID updated. |
| Methanol | 49 - 978 | ND | |
| Pentane | 67 - 1338 | ND | |
| Ethanol | 68 - 1361 | >1361 | |
| Acetone | 78 - 1553 | ND | |
| Isopropyl Alcohol | 80 - 1607 | ND | |
| Hexane | 5 - 95 | ND | |
| Ethyl Acetate | 79 - 1571 | ND | |
| Benzene | 0.2 - 3.1 | ND | |
| Heptanes | 74 - 1479 | ND | |
| Toluene | 14 - 287 | ND | |
| Xylenes (m,p,o-Xylenes) | 104 - 2080 | ND | |

Final Approval

Mygun Neuss

Ryan Weems 19May2022 12:51:00 PM MDT

PREPARED BY / DATE

Sowantha Smill

Sam Smith 19May2022 02:37:00 PM MDT