

Joy Organics CBD Gummies for Sleep **PRODUCT NAME:**

PRODUCT STRENGTH: 30mg CBD, 3mg CBN, 1mg THC, + 3mg Melatonin / gummy

BATCH: 230111C 12/12/2024 **BEST BY DATE: HEMP**

Physical Atttributes

| Test | Method | Specification | Results |
|-------------------------|--------------|--|---------|
| Color | Joy Internal | Purple | PASS |
| Odor | Joy Internal | Sweet, berry | PASS |
| Appearance | Joy Internal | Purple 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 30 mg / gummy | 37mg | PASS |
| Potency - D9-THC | HPLC-UV DAD | <0.3% (full spectrum) | 1.1mg | 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

1/12/2023

Date



30 mg CBD Sleep Gummy with Melatonin

| Batch ID or Lot Number: | Test, Test ID and Methods: | Matrix: | Page 1 of 1 |
|-------------------------|----------------------------|-------------|-------------|
| 230111C | Various | Concentrate | |
| Reported: | Started: | Received: | |
| 16Dec2022 | 15Dec2022 | 13Dec2022 | |

Cannabinoids - Colorado Compliance

Test ID: T000230551

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

| methods. Title 1 (in Le Brib). Fotoney Standard | | | | | |
|---|----------------|----------------|--|------------------------------|-----|
| Cannabinoid Analysis | LOD (%) | LOQ (%) | Result (%) | Result (mg/g) | Not |
| Cannabichromene (CBC) | 0.007 | 0.024 | 0.031 | 0.31 | |
| Cannabichromenic Acid (CBCA) | 0.006 | 0.022 | ND | ND | |
| Cannabidiol (CBD) | 0.022 | 0.066 | 0.929 | 9.29 | |
| Cannabidiolic Acid (CBDA) | 0.023 | 0.068 | ND | ND | |
| Cannabidivarin (CBDV) | 0.005 | 0.016 | <loq< td=""><td><loq< td=""><td></td></loq<></td></loq<> | <loq< td=""><td></td></loq<> | |
| Cannabidivarinic Acid (CBDVA) | 0.010 | 0.028 | ND | ND | |
| Cannabigerol (CBG) | 0.004 | 0.014 | <loq< td=""><td><loq< td=""><td></td></loq<></td></loq<> | <loq< td=""><td></td></loq<> | |
| Cannabigerolic Acid (CBGA) | 0.016 | 0.057 | ND | ND | |
| Cannabinol (CBN) | 0.005 | 0.018 | 0.088 | 0.88 | |
| Cannabinolic Acid (CBNA) | 0.011 | 0.039 | ND | ND | |
| Delta 8-Tetrahydrocannabinol (Delta 8-THC) | 0.019 | 0.068 | ND | ND | |
| Delta 9-Tetrahydrocannabinol (Delta 9-THC) | 0.018 | 0.062 | 0.028 | 0.28 | |
| Delta 9-Tetrahydrocannabinolic Acid (THCA-A) | 0.016 | 0.055 | ND | ND | |
| Tetrahydrocannabivarin (THCV) | 0.004 | 0.012 | ND | ND | • |
| Tetrahydrocannabivarinic Acid (THCVA) | 0.014 | 0.048 | ND | ND | |
| Total Cannabinoids | | | 1.076 | 10.76 | |
| Total Potential THC | | | 0.028 | 0.28 | |
| Total Potential CBD | | | 0.929 | 9.29 | |
| | | | | | |

Final Approval

Menheumer 02:41:00 PM MST PREPARED BY / DATE

Karen Winternheimer 16Dec2022

Samantha Smul

Sam Smith 16Dec2022 02:42:00 PM MST

APPROVED BY / DATE



https://results.botanacor.com/api/v1/coas/uuid/133513b8-6b26-45d7-b907-e70120b117a3

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-THC + (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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30 mg CBD Sleep Gummy with Melatonin

| Batch ID or Lot Number: | Test, Test ID and Methods: | Matrix: | Page 1 of 4 |
|-------------------------|----------------------------|-------------|-------------|
| 230111C | Various | Concentrate | |
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| 15Dec2022 | 14Dec2022 | 13Dec2022 | |

Residual Solvents -Colorado Compliance

Test ID: T000230555

Methods: TM04 (GC-MS): Residual

| Solvents | Dynamic Range (ppm) | Result (ppm) | Notes |
|-------------------------------|---------------------|--------------|-------|
| Propane | 87 - 1749 | ND | |
| Butanes (Isobutane, n-Butane) | 175 - 3495 | ND | |
| Methanol | 58 - 1153 | ND | |
| Pentane | 94 - 1884 | ND | |
| Ethanol | 93 - 1859 | ND | |
| Acetone | 94 - 1888 | ND | |
| Isopropyl Alcohol | 96 - 1913 | ND | |
| Hexane | 6 - 112 | ND | |
| Ethyl Acetate | 97 - 1936 | ND | |
| Benzene | 0.2 - 3.8 | ND | |
| Heptanes | 96 - 1926 | ND | |
| Toluene | 17 - 342 | ND | |
| Xylenes (m,p,o-Xylenes) | 126 - 2528 | ND | |

Final Approval

Karen Winternheimer 15Dec2022 Menhemer 01:46:00 PM MST

PREPARED BY / DATE APPROVED BY / DATE

Sam Smith Samantha Smoth 15Dec2022 01:49:00 PM MST



30 mg CBD Sleep Gummy with Melatonin

| Batch ID or Lot Number: | Test, Test ID and Methods: | Matrix: | Page 2 of 4 |
|-------------------------|----------------------------|-------------|-------------|
| 230111C | Various | Concentrate | |
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Pesticides

Test ID: T000230552 Methods: TM17

| (LC-QQ LC MS/MS) | Dynamic Range (ppb) | Result (ppb) |
|---------------------|----------------------------|--------------|
| Abamectin | 321 - 2637 | ND |
| Acephate | 44 - 2805 | ND |
| Acetamiprid | 41 - 2778 | ND |
| Azoxystrobin | 44 - 2739 | ND |
| Bifenazate | 41 - 2757 | ND |
| Boscalid | 45 - 2850 | ND |
| Carbaryl | 42 - 2760 | ND |
| Carbofuran | 41 - 2759 | ND |
| Chlorantraniliprole | 47 - 2775 | ND |
| Chlorpyrifos | 53 - 2776 | ND |
| Clofentezine | 273 - 2775 | ND |
| Diazinon | 280 - 2782 | ND |
| Dichlorvos | 286 - 2791 | ND |
| Dimethoate | 42 - 2719 | ND |
| E-Fenpyroximate | 294 - 2748 | ND |
| Etofenprox | 39 - 2748 | ND |
| Etoxazole | 300 - 2730 | ND |
| Fenoxycarb | 43 - 2747 | ND |
| Fipronil | 40 - 2793 | ND |
| Flonicamid | 51 - 2761 | ND |
| Fludioxonil | 256 - 2801 | ND |
| Hexythiazox | 42 - 2732 | ND |
| Imazalil | 257 - 2783 | ND |
| Imidacloprid | 47 - 2785 | ND |
| Kresoxim-methyl | 44 - 2789 | ND |

| | Dynamic Range (ppb) | Result (ppb) |
|-----------------|----------------------------|--------------|
| Malathion | 284 - 2755 | ND |
| Metalaxyl | 43 - 2742 | ND |
| Methiocarb | 44 - 2752 | ND |
| Methomyl | 44 - 2780 | ND |
| MGK 264 1 | 182 - 1636 | ND |
| MGK 264 2 | 119 - 1161 | ND |
| Myclobutanil | 46 - 2750 | ND |
| Naled | 43 - 2793 | ND |
| Oxamyl | 42 - 2780 | ND |
| Paclobutrazol | 39 - 2755 | ND |
| Permethrin | 166 - 2753 | ND |
| Phosmet | 41 - 2734 | ND |
| Prophos | 275 - 2783 | ND |
| Propoxur | 41 - 2752 | ND |
| Pyridaben | 291 - 2730 | ND |
| Spinosad A | 34 - 2237 | ND |
| Spinosad D | 51 - 491 | ND |
| Spiromesifen | 280 - 2753 | ND |
| Spirotetramat | 270 - 2745 | ND |
| Spiroxamine 1 | 18 - 1194 | ND |
| Spiroxamine 2 | 24 - 1562 | ND |
| Tebuconazole | 288 - 2716 | ND |
| Thiacloprid | 43 - 2770 | ND |
| Thiamethoxam | 41 - 2788 | ND |
| Trifloxystrobin | 41 - 2773 | ND |

Final Approval

Karen Winternheimer 16Dec2022 Muterhumer 09:22:00 AM MST

PREPARED BY / DATE

Samantha Smill 16Dec2022 09:32:00 AM MST

APPROVED BY / DATE

Sam Smith



30 mg CBD Sleep Gummy with Melatonin

| Batch ID or Lot Number: | Test, Test ID and Methods: | Matrix: | Page 3 of 4 |
|-------------------------|----------------------------|-------------|-------------|
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| 15Dec2022 | 14Dec2022 | 13Dec2022 | |

Microbial

Contaminants -

Colorado Compliance

Test ID: T000230553

Methods: TM25 (qPCR) TM24, TM26,

| TM27 (Culture Plating): Microbial | | | Quantitation | | |
|-----------------------------------|--------------------------|-------------------------|---|---------------|---|
| (Colorado Panel) | 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 Plating | 10 ¹ CFU/g | 1.0x10 ² - 1.5x10 ⁴ | None Detected | _ |

Final Approval

Pest Rehm

Brett Hudson 17Dec2022 02:32:00 PM MST

Buanne Maillot 19Dec2022

Brianne Maillot 09:18:00 AM MST

PREPARED BY / DATE

APPROVED BY / DATE

Heavy Metals -

Colorado Compliance

Test ID: T000230554

Methods: TM19 (ICP-MS): Heavy

| Metals | Dynamic Range (ppm) | Result (ppm) | Notes |
|---------|---------------------|--------------|-------|
| Arsenic | 0.04 - 4.22 | ND | |
| Cadmium | 0.05 - 4.63 | ND | |
| Mercury | 0.04 - 4.44 | ND | |
| Lead | 0.05 - 4.50 | ND | |

Final Approval

Sawantha Small

PREPARED BY / DATE

Sam Smith 20Dec2022 08:06:00 AM MST

MENTHUMEN 08:07:00 AM MST APPROVED BY / DATE

Karen Winternheimer 20Dec2022



30 mg CBD Sleep Gummy with Melatonin

| Batch ID or Lot Number: | Test, Test ID and Methods: | Matrix: | Page 4 of 4 |
|-------------------------|----------------------------|-------------|-------------|
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| 15Dec2022 | 14Dec2022 | 13Dec2022 | |

Mycotoxins - Colorado Compliance

Test ID: T000230556

Methods: TM18 (UHPLC-QQQ

| LCMS/MS): Mycotoxins | Dynamic Range (ppb) | Result (ppb) | Notes |
|---------------------------------------|----------------------------|--------------|-------|
| Ochratoxin A | 4.09 - 122.30 | ND | N/A |
| Aflatoxin B1 | 0.92 - 30.51 | ND | |
| Aflatoxin B2 | 0.92 - 30.24 | ND | |
| Aflatoxin G1 | 1.10 - 30.57 | ND | |
| Aflatoxin G2 | 0.80 - 30.04 | ND | |
| Total Aflatoxins (B1, B2, G1, and G2) | | ND | |

Final Approval

Sam Smith 22Dec2022 08:42:00 AM MST

O8:42:00 AM MS
PREPARED BY / DATE

APPROVED BY / DATE

Karen Winternheimer 22Dec2022 Watershiemen 08:44:00 AM MST



https://results.botanacor.com/api/v1/coas/uuid/6846db01-8dd0-4b85-9b3c-c544fd0e2482

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