

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Nano CBD Softgels
PRODUCT STRENGTH: 25 mg CBD
TINCTURE BATCH: 230717A
BEST BY DATE: 6/9/2025
HEMP EXTRACT LOT: 23060802

Physical Attributes

| Test | Method | Specification | Results |
|-------------------------|--------------|--|---------|
| Color | Joy Internal | Golden to Amber | PASS |
| Odor | Joy Internal | No Odor | PASS |
| Appearance | Joy Internal | Dry, ovoid softgel capsules in container with lid and shrink-band | PASS |
| Primary Package Eval. | Joy Internal | Container clean and free of filth. Container caps tight and shrink bands intact | PASS |
| Secondary Package Eval. | Joy Internal | Labeling Compliance Checked, Cartons sturdy and clean. 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 25 mg / softgel | 29mg | PASS |
| Potency - D9-THC | HPLC-UV DAD | LOQ: <0.01% (broad spectrum) | ND | 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† Aflatoxin 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
 10²=100 CFU
 10³=1,000 CFU

Quality Certified


 Name _____

7/24/2023

Date

25mg CBD Nano Softgel

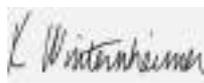
| | | | |
|---|---------------------------------------|------------------------|-------------|
| Batch ID or Lot Number: 230717A | Test, Test ID and Methods: Various | Matrix: Unit | Page 1 of 6 |
| Reported: 22Jun2023 | Started: 20Jun2023 | Received: 21Jun2023 | |

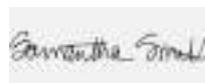
Cannabinoids - Colorado Compliance

Test ID: T000246816
Methods: TM14 (HPLC-DAD): Potency – Standard

| Cannabinoid Analysis | LOD (mg) | LOQ (mg) | Result (mg) | Result (mg/g) | Notes |
|--|----------|----------|---------------|---------------|--|
| Cannabichromene (CBC) | 0.059 | 0.171 | ND | ND | # of Servings = 1 Sample Weight=0.534g |
| Cannabichromenic Acid (CBCA) | 0.054 | 0.156 | ND | ND | |
| Cannabidiol (CBD) | 0.184 | 0.474 | 29.167 | 54.64 | |
| Cannabidiolic Acid (CBDA) | 0.189 | 0.486 | ND | ND | |
| Cannabidivarin (CBDV) | 0.044 | 0.112 | 0.130 | 0.24 | |
| Cannabidivarinic Acid (CBDVA) | 0.079 | 0.203 | ND | ND | |
| Cannabigerol (CBG) | 0.033 | 0.097 | 1.534 | 2.87 | |
| Cannabigerolic Acid (CBGA) | 0.139 | 0.406 | ND | ND | |
| Cannabinol (CBN) | 0.044 | 0.127 | ND | ND | |
| Cannabinolic Acid (CBNA) | 0.095 | 0.277 | ND | ND | |
| Delta 8-Tetrahydrocannabinol (Delta 8-THC) | 0.166 | 0.483 | ND | ND | |
| Delta 9-Tetrahydrocannabinol (Delta 9-THC) | 0.151 | 0.439 | ND | ND | |
| Delta 9-Tetrahydrocannabinolic Acid (THCA-A) | 0.134 | 0.389 | ND | ND | |
| Tetrahydrocannabivarin (THCV) | 0.030 | 0.088 | ND | ND | |
| Tetrahydrocannabivarinic Acid (THCVA) | 0.118 | 0.343 | ND | ND | |
| Total Cannabinoids | | | 30.831 | 57.75 | |
| Total Potential THC | | | ND | ND | |
| Total Potential CBD | | | 29.167 | 54.64 | |

Final Approval


Karen Winternheimer
22Jun2023
12:04:00 PM MDT
PREPARED BY / DATE


Sam Smith
22Jun2023
12:06:00 PM MDT
APPROVED BY / DATE

25mg CBD Nano Softgel

| | | | |
|---|---------------------------------------|------------------------|-------------|
| Batch ID or Lot Number: 230717A | Test, Test ID and Methods: Various | Matrix: Unit | Page 2 of 6 |
| Reported: 22Jun2023 | Started: 20Jun2023 | Received: 21Jun2023 | |

Mycotoxins - Colorado Compliance

Test ID: T000246821
Methods: TM18 (UHPLC-QQQ)
LCMS/MS: Mycotoxins

| | Dynamic Range (ppb) | Result (ppb) | Notes |
|---------------------------------------|---------------------|--------------|-------|
| Ochratoxin A | 1.39 - 133.54 | ND | N/A |
| Aflatoxin B1 | 0.97 - 32.49 | ND | |
| Aflatoxin B2 | 0.97 - 32.53 | ND | |
| Aflatoxin G1 | 1.00 - 32.79 | ND | |
| Aflatoxin G2 | 1.00 - 32.95 | ND | |
| Total Aflatoxins (B1, B2, G1, and G2) | | ND | |

Final Approval


Sam Smith
23Jun2023
01:33:00 PM MDT
PREPARED BY / DATE


Karen Winternheimer
23Jun2023
01:36:00 PM MDT
APPROVED BY / DATE

Heavy Metals - Colorado Compliance

Test ID: T000246819
Methods: TM19 (ICP-MS): Heavy Metals

| | Dynamic Range (ppm) | Result (ppm) | Notes |
|---------|---------------------|--------------|-------|
| Arsenic | 0.03 - 3.03 | ND | |
| Cadmium | 0.05 - 4.73 | ND | |
| Mercury | 0.04 - 4.22 | ND | |
| Lead | 0.04 - 3.87 | ND | |

Final Approval


Sam Smith
25Jun2023
10:53:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
25Jun2023
11:08:00 AM MDT
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25mg CBD Nano Softgel

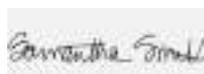
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| Batch ID or Lot Number: 230717A | Test, Test ID and Methods: Various | Matrix: Unit | Page 3 of 6 |
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**Residual Solvents -
Colorado Compliance**

Test ID: T000246820
Methods: TM04 (GC-MS): Residual

| Solvents | Dynamic Range (ppm) | Result (ppm) | Notes |
|-------------------------------|---------------------|--------------|-------|
| Propane | 113 - 2251 | ND | |
| Butanes (Isobutane, n-Butane) | 224 - 4486 | ND | |
| Methanol | 66 - 1329 | ND | |
| Pentane | 110 - 2195 | ND | |
| Ethanol | 113 - 2262 | ND | |
| Acetone | 107 - 2150 | ND | |
| Isopropyl Alcohol | 111 - 2228 | ND | |
| Hexane | 6 - 129 | ND | |
| Ethyl Acetate | 107 - 2147 | ND | |
| Benzene | 0.2 - 4.5 | ND | |
| Heptanes | 110 - 2209 | ND | |
| Toluene | 20 - 392 | ND | |
| Xylenes (m,p,o-Xylenes) | 143 - 2864 | ND | |

Final Approval


Sam Smith
26Jun2023
02:24:00 PM MDT

PREPARED BY / DATE


Karen Winternheimer
26Jun2023
02:25:00 PM MDT

APPROVED BY / DATE

25mg CBD Nano Softgel

| | | | |
|---|---------------------------------------|------------------------|-------------|
| Batch ID or Lot Number: 230717A | Test, Test ID and Methods: Various | Matrix: Unit | Page 4 of 6 |
| Reported: 22Jun2023 | Started: 20Jun2023 | Received: 21Jun2023 | |

Microbial Contaminants - Colorado Compliance

Test ID: T000246818
Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)

| | 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 | <LLOQ | |
| Total Coliforms* | TM27: Culture Plating | 10 ¹ CFU/g | 1.0x10 ² - 1.5x10 ⁴ | None Detected | |

Final Approval



Eden Thompson-Wright
26Jun2023
09:58:00 AM MDT

PREPARED BY / DATE



Brianne Maillot
26Jun2023
04:56:00 PM MDT

APPROVED BY / DATE

25mg CBD Nano Softgel

| | | | |
|---|---------------------------------------|------------------------|-------------|
| Batch ID or Lot Number: 230717A | Test, Test ID and Methods: Various | Matrix: Unit | Page 5 of 6 |
| Reported: 22Jun2023 | Started: 20Jun2023 | Received: 21Jun2023 | |

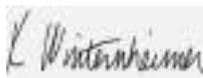
Pesticides

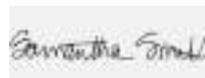
Test ID: T000246817

Methods: TM17

| (LC-QQ LC MS/MS) | Dynamic Range (ppb) | Result (ppb) | | Dynamic Range (ppb) | Result (ppb) | |
|---------------------|---------------------|--------------|--|---------------------|--------------|----|
| Abamectin | 308 - 2726 | ND | | Malathion | 288 - 2702 | ND |
| Acephate | 43 - 2716 | ND | | Metalaxyl | 46 - 2683 | ND |
| Acetamiprid | 42 - 2723 | ND | | Methiocarb | 42 - 2713 | ND |
| Azoxystrobin | 46 - 2669 | ND | | Methomyl | 42 - 2746 | ND |
| Bifenazate | 44 - 2667 | ND | | MGK 264 1 | 165 - 1708 | ND |
| Boscalid | 34 - 2701 | ND | | MGK 264 2 | 103 - 1089 | ND |
| Carbaryl | 39 - 2722 | ND | | Myclobutanil | 45 - 2719 | ND |
| Carbofuran | 43 - 2710 | ND | | Naled | 44 - 2717 | ND |
| Chlorantraniliprole | 43 - 2726 | ND | | Oxamyl | 41 - 2764 | ND |
| Chlorpyrifos | 39 - 2759 | ND | | Paclobutrazol | 46 - 2715 | ND |
| Clofentezine | 288 - 2741 | ND | | Permethrin | 275 - 2730 | ND |
| Diazinon | 282 - 2686 | ND | | Phosmet | 46 - 2656 | ND |
| Dichlorvos | 285 - 2755 | ND | | Prophos | 293 - 2688 | ND |
| Dimethoate | 41 - 2731 | ND | | Propoxur | 43 - 2714 | ND |
| E-Fenpyroximate | 272 - 2762 | ND | | Pyridaben | 282 - 2760 | ND |
| Etofenprox | 43 - 2725 | ND | | Spinosad A | 30 - 2076 | ND |
| Etoxazole | 278 - 2748 | ND | | Spinosad D | 58 - 670 | ND |
| Fenoxycarb | 13 - 2670 | ND | | Spiromesifen | 269 - 2733 | ND |
| Fipronil | 60 - 2716 | ND | | Spirotetramat | 284 - 2693 | ND |
| Flonicamid | 52 - 2707 | ND | | Spiroxamine 1 | 18 - 1200 | ND |
| Fludioxonil | 306 - 2679 | ND | | Spiroxamine 2 | 24 - 1504 | ND |
| Hexythiazox | 40 - 2786 | ND | | Tebuconazole | 287 - 2718 | ND |
| Imazalil | 267 - 2685 | ND | | Thiacloprid | 41 - 2710 | ND |
| Imidacloprid | 45 - 2814 | ND | | Thiamethoxam | 39 - 2741 | ND |
| Kresoxim-methyl | 45 - 2697 | ND | | Trifloxystrobin | 44 - 2705 | ND |

Final Approval


 Karen Winternheimer
 29Jun2023
 10:44:00 AM MDT
 PREPARED BY / DATE


 Sam Smith
 29Jun2023
 10:46:00 AM MDT
 APPROVED BY / DATE