

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Nano CBD Softgels with Melatonin  
**PRODUCT STRENGTH:** 25 mg CBD / 3 mg Melatonin / 3mg CBN  
**TINCTURE BATCH:** 7264  
**BEST BY DATE:**

## Physical Attributes

| Test                    | Method   | Specification  | Results |
|-------------------------|----------|--|---------|
| Color                   | Internal | Golden to Amber  | PASS    |
| Odor                    | Internal | No Odor  | PASS    |
| Appearance              | Internal | Dry, ovoid softgel capsules in container with lid and shrink-band  | PASS    |
| Primary Package Eval.   | Internal | Container clean and free of filth. Container caps tight and shrink bands intact                                  | PASS    |
| Secondary Package Eval. | 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 |
|---|-----------------|---|-----------|-----------|
| <b>Potency - Total CBD</b>                  | HPLC-UV DAD     | *NTL 25mg / softgel   |           | PASS      |
| <b>Potency - D9-THC</b>                     | HPLC-UV DAD     | LOQ: <0.01% THC (Broad Spectrum)  | ND        | PASS      |
| <b>Expanded Pesticide Panel</b>             | HPLC-QQQ        | LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract                                    | ND        | PASS      |
| <b>Microbial</b><br>Escherichia coli (STEC) | PCR             | Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram   | Absent    | PASS      |
| <b>Microbial</b><br>Salmonella              | PCR             | Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram   | Absent    | PASS      |
| <b>Microbial</b><br>Yeast and Mold          | Culture Plating | Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>2</sup> CFU/gram                                  | Below LOQ | PASS      |
| <b>Microbial</b><br>Total Coliforms*        | Culture Plating | Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>2</sup> CFU/gram                                  | Below LOQ | PASS      |
| <b>Microbial</b><br>Total Aerobic Count*    | Culture Plating | Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>3</sup> CFU/gram                                  | Below LOQ | PASS      |
| <b>Heavy Metals Panel</b>                   | ICP-MS          | Arsenic (As): ≤1.5 ppm<br>Cadmium (Cd): ≤0.5 ppm<br>Lead (Pb): ≤0.5 ppm<br>Mercury (Hg): ≤1.5 ppm | ND        | PASS      |
| <b>Mycotoxins</b>                           | ICP-MS          | Total Aflatoxins <20 ppb†<br>Afltoxin B1 < 5 ppb<br>Ochratoxin < 5ppb                             | ND        | PASS      |
| <b>Residual Solvents</b>                    | GC-HS-MSD       | LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract                                    | ND        | PASS      |

\*Level of Quantitation, † Parts Per Million ‡ Part Per Billion CFU/g=Colony Forming Units per Gram  
 \*Nothing Less Than  
 10<sup>2</sup>=100 CFU  
 10<sup>3</sup>=1,000 CFU

Quality Certified \_\_\_\_\_  
 Name Date

**SG25M Melatonin**


|                                     |                                    |                          |             |
|-------------------------------------|------------------------------------|--------------------------|-------------|
| Batch ID or Lot Number: <b>7264</b> | Test, Test ID and Methods: Various | Matrix: Finished Product | Page 2 of 2 |
| Reported: <b>26Sep2022</b>          | Started: 23Sep2022                 | Received: 23Sep2022      |             |

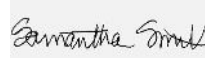
**Cannabinoids - Colorado Compliance**

Test ID: T000222464  
Methods: TM14 (HPLC-DAD): Potency – Standard

| Cannabinoid Analysis                         | LOD (mg) | LOQ (mg) | Result (mg)   | Result (mg/g) | Notes                                    |
|--|----------|----------|---------------|---------------|--|
| Cannabichromene (CBC)                        | 0.049    | 0.163    | ND            | ND            | # of Servings = 1<br>Sample Weight=0.62g |
| Cannabichromenic Acid (CBCA)                 | 0.045    | 0.149    | ND            | ND            |  |
| Cannabidiol (CBD)                            | 0.164    | 0.438    | 28.566        | 46.04         |  |
| Cannabidiolic Acid (CBDA)                    | 0.169    | 0.449    | ND            | ND            |  |
| Cannabidivarin (CBDV)                        | 0.039    | 0.104    | <LOQ          | 0.16          |  |
| Cannabidivarinic Acid (CBDVA)                | 0.070    | 0.187    | ND            | ND            |  |
| Cannabigerol (CBG)                           | 0.028    | 0.093    | 1.795         | 2.89          |  |
| Cannabigerolic Acid (CBGA)                   | 0.116    | 0.387    | ND            | ND            |  |
| Cannabinol (CBN)                             | 0.036    | 0.121    | 3.815         | 6.15          |  |
| Cannabinolic Acid (CBNA)                     | 0.079    | 0.264    | ND            | ND            |  |
| Delta 8-Tetrahydrocannabinol (Delta 8-THC)   | 0.138    | 0.461    | ND            | ND            |  |
| Delta 9-Tetrahydrocannabinol (Delta 9-THC)   | 0.125    | 0.419    | ND            | ND            |  |
| Delta 9-Tetrahydrocannabinolic Acid (THCA-A) | 0.111    | 0.371    | ND            | ND            |  |
| Tetrahydrocannabivarin (THCV)                | 0.025    | 0.084    | ND            | ND            |  |
| Tetrahydrocannabivarinic Acid (THCVA)        | 0.098    | 0.327    | ND            | ND            |  |
| <b>Total Cannabinoids</b>                    |          |          | <b>34.275</b> | <b>55.24</b>  |  |
| Total Potential THC                          |          |          | ND            | ND            |  |
| Total Potential CBD                          |          |          | 28.566        | 46.04         |  |

**Final Approval**

  
Daniel Weidensaul  
28Sep2022  
01:47:00 PM MDT  
PREPARED BY / DATE

  
Sam Smith  
28Sep2022  
01:54:00 PM MDT  
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/f7de8086-3913-41f7-bdb2-817c8891590f>

**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<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 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.](#)



Cert #4329.02  
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## SG25M BS w Melatonin

|                              |   |                            |                   |
|------------------------------|---|----------------------------|-------------------|
| Batch ID or Lot Number: 7264 | Test: <b>Microbial Contaminants</b>   | Reported: <b>14Sep2022</b> | USDA License: N/A |
| Matrix: Finished Product     | Test ID: T000219044   | Started: 23Aug2022         | Sampler ID: N/A   |
|                              | Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel) | Received: 23Aug2022        | Status: Active    |

## Microbial Contaminants

| Contaminants          | Method                | LOD                     | Quantitation Range                        | Result        | Notes   |
|-----------------------|-----------------------|-------------------------|---|---------------|---|
| STEC                  | TM25: PCR             | 10 <sup>0</sup> CFU/25g | NA  | Absent        | Free from visual mold, mildew, and foreign matter |
| <i>Salmonella</i>     | TM25: PCR             | 10 <sup>0</sup> CFU/25g | NA  | Absent        |   |
| Total Yeast and Mold* | TM24: Culture Plating | 10 <sup>1</sup> CFU/g   | 1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> | None Detected |   |
| Total Aerobic Count*  | TM26: Culture Plating | 10 <sup>2</sup> CFU/g   | 1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup> | <LLOQ         |   |
| Total Coliforms*      | TM27: Culture Plating | 10 <sup>1</sup> CFU/g   | 1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> | None Detected |   |

## Final Approval



Brett Hudson  
26Aug2022  
03:15:00 PM MDT

PREPARED BY / DATE



Jacob Folkerts  
26Aug2022  
04:54:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/ca104e16-3d46-430e-94d5-da9b3855b8de>

### Definitions

\* 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<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 100,000 CFU  
CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection  
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation  
STEC = Shiga Toxin-Producing E. coli

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.



Cert #4329.02

CDPHE Certified

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**SG25M BS w Melatonin**


|                                 |                                       |                        |             |
|---------------------------------|---------------------------------------|------------------------|-------------|
| Batch ID or Lot Number:<br>7264 | Test, Test ID and Methods:<br>Various | Matrix:<br>Unit Co     | Page 1 of 6 |
| Reported:<br>24Aug2022          | Started:<br>24Aug2022                 | Received:<br>23Aug2022 |             |


**Heavy Metals -  
Colorado Compliance**

Test ID: T000219045  
Methods: TM19 (ICP-MS): Heavy

| Metals  | Dynamic Range (ppm) | Result (ppm) | Notes |
|---------|---------------------|--------------|-------|
| Arsenic | 0.04 - 4.47         | ND           |       |
| Cadmium | 0.04 - 4.37         | ND           |       |
| Mercury | 0.04 - 4.44         | ND           |       |
| Lead    | 0.04 - 4.48         | ND           |       |

**Final Approval**

  
Daniel Weidensaul  
24Aug2022  
04:48:00 PM MDT  
PREPARED BY / DATE

  
Courtney Richards  
24Aug2022  
05:54:00 PM MDT  
APPROVED BY / DATE

**SG25M BS w Melatonin**

|                                 |                                       |                        |             |
|---------------------------------|---------------------------------------|------------------------|-------------|
| Batch ID or Lot Number:<br>7264 | Test, Test ID and Methods:<br>Various | Matrix:<br>Unit Co     | Page 2 of 6 |
| Reported:<br>24Aug2022          | Started:<br>24Aug2022                 | Received:<br>23Aug2022 |             |


**Residual Solvents -  
Colorado Compliance**

Test ID: T000219046  
Methods: TM04 (GC-MS): Residual

| Solvents                      | Dynamic Range (ppm) | Result (ppm) | Notes |
|-------------------------------|---------------------|--------------|-------|
| Propane                       | 72 - 1434           | ND           |       |
| Butanes (Isobutane, n-Butane) | 150 - 2992          | ND           |       |
| Methanol                      | 47 - 936            | ND           |       |
| Pentane                       | 78 - 1556           | ND           |       |
| Ethanol                       | 77 - 1534           | ND           |       |
| Acetone                       | 77 - 1532           | ND           |       |
| Isopropyl Alcohol             | 81 - 1628           | ND           |       |
| Hexane                        | 5 - 94              | ND           |       |
| Ethyl Acetate                 | 77 - 1542           | ND           |       |
| Benzene                       | 0.2 - 3.2           | ND           |       |
| Heptanes                      | 81 - 1610           | ND           |       |
| Toluene                       | 14 - 276            | ND           |       |
| Xylenes (m,p,o-Xylenes)       | 103 - 2056          | ND           |       |

**Final Approval**

  
 Jacob Miller  
 25Aug2022  
 05:08:00 PM MDT  
 PREPARED BY / DATE

  
 Daniel Weidensaul  
 25Aug2022  
 05:08:00 PM MDT  
 APPROVED BY / DATE

**SG25M BS w Melatonin**

|                                 |                                       |                        |             |
|---------------------------------|---------------------------------------|------------------------|-------------|
| Batch ID or Lot Number:<br>7264 | Test, Test ID and Methods:<br>Various | Matrix:<br>Unit Co     | Page 4 of 6 |
| Reported:<br>24Aug2022          | Started:<br>24Aug2022                 | Received:<br>23Aug2022 |             |


**Pesticides**


Test ID: T000219043

Methods: TM17

| (LC-QQ LC MS/MS)    | Dynamic Range (ppb) | Result (ppb) |  | Dynamic Range (ppb) | Result (ppb) |    |
|---------------------|---------------------|--------------|--|---------------------|--------------|----|
| Abamectin           | 326 - 2612          | ND           |  | Malathion           | 278 - 2825   | ND |
| Acephate            | 52 - 2697           | ND           |  | Metalaxyl           | 38 - 2779    | ND |
| Acetamiprid         | 44 - 2694           | ND           |  | Methiocarb          | 48 - 2694    | ND |
| Azoxystrobin        | 38 - 2757           | ND           |  | Methomyl            | 50 - 2686    | ND |
| Bifenazate          | 48 - 2758           | ND           |  | MGK 264 1           | 139 - 1646   | ND |
| Boscalid            | 57 - 2681           | ND           |  | MGK 264 2           | 116 - 1153   | ND |
| Carbaryl            | 44 - 2755           | ND           |  | Myclobutanil        | 51 - 2644    | ND |
| Carbofuran          | 40 - 2758           | ND           |  | Naled               | 51 - 2682    | ND |
| Chlorantraniliprole | 55 - 2676           | ND           |  | Oxamyl              | 45 - 2670    | ND |
| Chlorpyrifos        | 46 - 2802           | ND           |  | Paclobutrazol       | 40 - 2792    | ND |
| Clofentezine        | 276 - 2832          | ND           |  | Permethrin          | 330 - 2715   | ND |
| Diazinon            | 289 - 2832          | ND           |  | Phosmet             | 40 - 2848    | ND |
| Dichlorvos          | 308 - 2682          | ND           |  | Prophos             | 314 - 2690   | ND |
| Dimethoate          | 47 - 2672           | ND           |  | Propoxur            | 41 - 2754    | ND |
| E-Fenpyroximate     | 300 - 2780          | ND           |  | Pyridaben           | 290 - 2793   | ND |
| Etofenprox          | 49 - 2713           | ND           |  | Spinosad A          | 35 - 2268    | ND |
| Etoxazole           | 295 - 2780          | ND           |  | Spinosad D          | 62 - 488     | ND |
| Fenoxycarb          | 42 - 2814           | ND           |  | Spiromesifen        | 307 - 2754   | ND |
| Fipronil            | 2 - 2763            | ND           |  | Spirotetramat       | 333 - 2721   | ND |
| Flonicamid          | 46 - 2720           | ND           |  | Spiroxamine 1       | 24 - 1156    | ND |
| Fludioxonil         | 341 - 2606          | ND           |  | Spiroxamine 2       | 32 - 1528    | ND |
| Hexythiazox         | 48 - 2764           | ND           |  | Tebuconazole        | 271 - 2876   | ND |
| Imazalil            | 297 - 2797          | ND           |  | Thiacloprid         | 39 - 2704    | ND |
| Imidacloprid        | 46 - 2646           | ND           |  | Thiamethoxam        | 43 - 2740    | ND |
| Kresoxim-methyl     | 52 - 2807           | ND           |  | Trifloxystrobin     | 38 - 2805    | ND |

**Final Approval**

  
 Sam Smith  
 29Aug2022  
 05:25:00 PM MDT  
 PREPARED BY / DATE

  
 Daniel Weidensaul  
 29Aug2022  
 05:28:00 PM MDT  
 APPROVED BY / DATE

**SG25M-BS w Melatonin**

|                                 |                                       |                        |             |
|---------------------------------|---------------------------------------|------------------------|-------------|
| Batch ID or Lot Number:<br>7264 | Test, Test ID and Methods:<br>Various | Matrix:<br>Unit Co     | Page 5 of 6 |
| Reported:<br>24Aug2022          | Started:<br>24Aug2022                 | Received:<br>23Aug2022 |             |

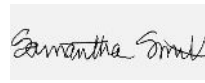
**Mycotoxins - Colorado Compliance**

Test ID: T000219047  
Methods: TM18 (UHPLC-QQQ)  
LCMS/MS: Mycotoxins

|                                       | Dynamic Range (ppb) | Result (ppb) | Notes |
|---------------------------------------|---------------------|--------------|-------|
| Ochratoxin A                          | 2.21 - 135.30       | ND           | N/A   |
| Aflatoxin B1                          | 1.09 - 33.36        | ND           |       |
| Aflatoxin B2                          | 0.99 - 33.62        | ND           |       |
| Aflatoxin G1                          | 1.05 - 33.32        | ND           |       |
| Aflatoxin G2                          | 1.19 - 33.65        | ND           |       |
| Total Aflatoxins (B1, B2, G1, and G2) |                     | ND           |       |

**Final Approval**

  
Jacob Miller  
30Aug2022  
10:11:00 AM MDT  
PREPARED BY / DATE


  
Sam Smith  
30Aug2022  
10:21:00 AM MDT  
APPROVED BY / DATE

**Microbial Contaminants - Colorado Compliance**

Test ID: T000219044  
Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)

|                       | Method                | LOD                     | Quantitation Range                        | Result        | Notes   |
|-----------------------|-----------------------|-------------------------|---|---------------|---|
| STEC                  | TM25: PCR             | 10 <sup>0</sup> CFU/25g | NA  | Absent        | Free from visual mold, mildew, and foreign matter |
| Salmonella            | TM25: PCR             | 10 <sup>0</sup> CFU/25g | NA  | Absent        |   |
| Total Yeast and Mold* | TM24: Culture Plating | 10 <sup>1</sup> CFU/g   | 1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> | None Detected |   |
| Total Aerobic Count*  | TM26: Culture Plating | 10 <sup>2</sup> CFU/g   | 1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup> | <LLOQ         |   |
| Total Coliforms*      | TM27: Culture Plating | 10 <sup>1</sup> CFU/g   | 1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> | None Detected |   |

**Final Approval**

  
Brett Hudson  
26Aug2022  
03:15:00 PM MDT  
PREPARED BY / DATE

  
Jacob Folkerts  
26Aug2022  
04:54:00 PM MDT  
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