

Prepared for:

**BIMINI MANUFACTURING LLC**

1440 SW 41ST ST, STE B  
TOPEKA, KS USA 66609


**B2064**

|   |                               |                               |                      |
|---|-------------------------------|-------------------------------|----------------------|
| Batch ID or Lot Number:<br><b>CBDMD Hip &amp; Joint 5mg</b> | Test:<br><b>Potency</b>       | Reported:<br><b>22May2023</b> | USDA License:<br>N/A |
| Matrix:<br>Unit   | Test ID:<br>T000244523        | Started:<br>22May2023         | Sampler ID:<br>N/A   |
|   | Method(s):<br>TM14 (HPLC-DAD) | Received:<br>22May2023        | Status:<br>N/A       |

## Cannabinoids

|  | LOD (mg) | LOQ (mg) | Result (mg)  | Result (mg/g) | Notes                                       |
|--|----------|----------|--------------|---------------|---|
| Cannabichromene (CBC)                        | 0.066    | 0.224    | ND           | ND            | # of Servings = 1,<br>Sample<br>Weight=3.5g |
| Cannabichromenic Acid (CBCA)                 | 0.061    | 0.205    | ND           | ND            |   |
| Cannabidiol (CBD)                            | 0.180    | 0.552    | 6.210        | 1.80          |   |
| Cannabidiolic Acid (CBDA)                    | 0.185    | 0.567    | ND           | ND            |   |
| Cannabidivarin (CBDV)                        | 0.043    | 0.131    | ND           | ND            |   |
| Cannabidivarinic Acid (CBDVA)                | 0.077    | 0.236    | ND           | ND            |   |
| Cannabigerol (CBG)                           | 0.038    | 0.127    | 0.360        | 0.10          |   |
| Cannabigerolic Acid (CBGA)                   | 0.157    | 0.531    | ND           | ND            |   |
| Cannabinol (CBN)                             | 0.049    | 0.166    | 0.410        | 0.10          |   |
| Cannabinolic Acid (CBNA)                     | 0.107    | 0.362    | ND           | ND            |   |
| Delta 8-Tetrahydrocannabinol (Delta 8-THC)   | 0.187    | 0.633    | ND           | ND            |   |
| Delta 9-Tetrahydrocannabinol (Delta 9-THC)   | 0.170    | 0.575    | ND           | ND            |   |
| Delta 9-Tetrahydrocannabinolic Acid (THCA-A) | 0.151    | 0.509    | ND           | ND            |   |
| Tetrahydrocannabivarin (THCV)                | 0.034    | 0.116    | ND           | ND            |   |
| Tetrahydrocannabivarinic Acid (THCVA)        | 0.133    | 0.449    | ND           | ND            |   |
| <b>Total Cannabinoids</b>                    |          |          | <b>6.980</b> | <b>2.00</b>   |   |
| Total Potential THC                          |          |          | ND           | ND            |   |
| Total Potential CBD                          |          |          | 6.210        | 1.80          |   |

## Final Approval



Sam Smith  
22May2023  
02:40:00 PM MDT

PREPARED BY / DATE



Karen Winternheimer  
22May2023  
02:45:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/298b7d60-de5b-4aba-99ce-bd69a23d04ca>

### 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 Accredited by A2LA.



Cert #4329.02

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Prepared for:

**BIMINI MANUFACTURING LLC**


1440 SW 41ST ST, STE B  
TOPEKA, KS USA 66609

**B2064**

|   |   |                               |                     |
|---|---|-------------------------------|---------------------|
| Batch ID or Lot Number:<br><b>CBDMD Hip &amp; Joint 5mg</b> | Test:<br><b>Heavy Metals</b>              | Reported:<br><b>24May2023</b> | USDA License:<br>NA |
| Matrix:<br>Finished Product                                 | Test ID:<br>T000244524                    | Started:<br>23May2023         | Sampler ID:<br>NA   |
|   | Method(s):<br>TM19 (ICP-MS): Heavy Metals | Received:<br>22May2023        | Status:<br>NA       |

| Heavy Metals | Dynamic Range (ppm) | Result (ppm) | Notes |
|--------------|---------------------|--------------|-------|
| Arsenic      | 0.04 - 4.42         | ND           |       |
| Cadmium      | 0.05 - 4.53         | ND           |       |
| Mercury      | 0.05 - 4.55         | ND           |       |
| Lead         | 0.04 - 4.34         | ND           |       |

## Final Approval



Sam Smith  
24May2023  
09:16:00 AM MDT

PREPARED BY / DATE



Karen Winternheimer  
24May2023  
09:19:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/64f2e4ea-51fd-42e1-9dbc-885ec6b0cb05>

### Definitions

ND = None Detected (defined by dynamic range of the method)  
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range


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  
64f2e4ea51fd42e19dbc885ec6b0cb05.1

**SAMPLE NAME: Hip and Joint Soft Chews 150mg**

Infused, Solid Edible


**CULTIVATOR / MANUFACTURER****Business Name:****License Number:****Address:****DISTRIBUTOR / TESTED FOR****Business Name:** cbdMD**License Number:****Address:****SAMPLE DETAIL****Batch Number:** 230522B2064**Sample ID:** 230525L044**Date Collected:** 05/25/2023**Date Received:** 05/25/2023**Batch Size:****Sample Size:** 2.0 units**Unit Mass:****Serving Size:** 1 grams per ServingScan QR code to verify  
authenticity of results.**SAFETY ANALYSIS - SUMMARY****Pesticides:**  **PASS****Mycotoxins:**  **PASS****Residual Solvents:**  **PASS****Microbiology (PCR):** ND**Microbiology (Plating):** DETECTED

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

**Sample Certification:** California Code of Regulations Title 4 Division 19. Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

**Decision Rule:** Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

**References:** limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)



LQC verified by: Kelsey Cochran  
Job Title: Laboratory Technician I  
Date: 06/03/2023



Approved by: Josh Wurzer  
Job Title: Chief Compliance Officer  
Date: 06/03/2023



## Pesticide Analysis

PESTICIDE TEST RESULTS - 05/30/2023 ✔ PASS

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

\*GC-MS utilized where indicated.

**Method:** QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

| COMPOUND            | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---------------------|----------------|---------------------|--------------------------------|---------------|--------|
| Abamectin           | 0.03 / 0.10    | 0.3                 | N/A                            | ND            | PASS   |
| Acephate            | 0.02 / 0.07    | 5                   | N/A                            | ND            | PASS   |
| Acequinocyl         | 0.02 / 0.07    | 4                   | N/A                            | ND            | PASS   |
| Acetamiprid         | 0.02 / 0.05    | 5                   | N/A                            | ND            | PASS   |
| Aldicarb            | 0.03 / 0.08    | ≥ LOD               | N/A                            | ND            | PASS   |
| Azoxystrobin        | 0.02 / 0.07    | 40                  | N/A                            | ND            | PASS   |
| Bifenazate          | 0.01 / 0.04    | 5                   | N/A                            | ND            | PASS   |
| Bifenthrin          | 0.02 / 0.05    | 0.5                 | N/A                            | ND            | PASS   |
| Boscalid            | 0.03 / 0.09    | 10                  | N/A                            | ND            | PASS   |
| Captan              | 0.19 / 0.57    | 5                   | N/A                            | ND            | PASS   |
| Carbaryl            | 0.02 / 0.06    | 0.5                 | N/A                            | ND            | PASS   |
| Carbofuran          | 0.02 / 0.05    | ≥ LOD               | N/A                            | ND            | PASS   |
| Chlorantraniliprole | 0.04 / 0.12    | 40                  | N/A                            | ND            | PASS   |
| Chlordane*          | 0.03 / 0.08    | ≥ LOD               | N/A                            | ND            | PASS   |
| Chlorfenapyr*       | 0.03 / 0.10    | ≥ LOD               | N/A                            | ND            | PASS   |
| Chlorpyrifos        | 0.02 / 0.06    | ≥ LOD               | N/A                            | ND            | PASS   |
| Clofentezine        | 0.03 / 0.09    | 0.5                 | N/A                            | ND            | PASS   |
| Coumaphos           | 0.02 / 0.07    | ≥ LOD               | N/A                            | ND            | PASS   |
| Cyfluthrin          | 0.12 / 0.38    | 1                   | N/A                            | ND            | PASS   |
| Cypermethrin        | 0.11 / 0.32    | 1                   | N/A                            | ND            | PASS   |
| Daminozide          | 0.02 / 0.07    | ≥ LOD               | N/A                            | ND            | PASS   |
| Diazinon            | 0.02 / 0.05    | 0.2                 | N/A                            | ND            | PASS   |
| Dichlorvos (DDVP)   | 0.03 / 0.09    | ≥ LOD               | N/A                            | ND            | PASS   |
| Dimethoate          | 0.03 / 0.08    | ≥ LOD               | N/A                            | ND            | PASS   |
| Dimethomorph        | 0.03 / 0.09    | 20                  | N/A                            | ND            | PASS   |
| Ethoprophos         | 0.03 / 0.10    | ≥ LOD               | N/A                            | ND            | PASS   |
| Etofenprox          | 0.02 / 0.06    | ≥ LOD               | N/A                            | ND            | PASS   |
| Etoxazole           | 0.02 / 0.06    | 1.5                 | N/A                            | ND            | PASS   |
| Fenhexamid          | 0.03 / 0.09    | 10                  | N/A                            | ND            | PASS   |
| Fenoxycarb          | 0.03 / 0.08    | ≥ LOD               | N/A                            | ND            | PASS   |
| Fenpyroximate       | 0.02 / 0.06    | 2                   | N/A                            | ND            | PASS   |
| Fipronil            | 0.03 / 0.08    | ≥ LOD               | N/A                            | ND            | PASS   |
| Flonicamid          | 0.03 / 0.10    | 2                   | N/A                            | ND            | PASS   |
| Fludioxonil         | 0.03 / 0.10    | 30                  | N/A                            | ND            | PASS   |
| Hexythiazox         | 0.02 / 0.07    | 2                   | N/A                            | ND            | PASS   |
| Imazalil            | 0.02 / 0.06    | ≥ LOD               | N/A                            | ND            | PASS   |
| Imidacloprid        | 0.04 / 0.11    | 3                   | N/A                            | ND            | PASS   |
| Kresoxim-methyl     | 0.02 / 0.07    | 1                   | N/A                            | ND            | PASS   |
| Malathion           | 0.03 / 0.09    | 5                   | N/A                            | ND            | PASS   |
| Metalaxyl           | 0.02 / 0.07    | 15                  | N/A                            | ND            | PASS   |
| Methiocarb          | 0.02 / 0.07    | ≥ LOD               | N/A                            | ND            | PASS   |

Continued on next page



### Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 05/30/2023 *continued* ✔ PASS

| COMPOUND                 | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|--------------------------|----------------|---------------------|--------------------------------|---------------|--------|
| Methomyl                 | 0.03 / 0.10    | 0.1                 | N/A                            | ND            | PASS   |
| Mevinphos                | 0.03 / 0.09    | ≥ LOD               | N/A                            | ND            | PASS   |
| Myclobutanil             | 0.03 / 0.09    | 9                   | N/A                            | ND            | PASS   |
| Naled                    | 0.02 / 0.07    | 0.5                 | N/A                            | ND            | PASS   |
| Oxamyl                   | 0.04 / 0.11    | 0.2                 | N/A                            | ND            | PASS   |
| Paclobutrazol            | 0.02 / 0.05    | ≥ LOD               | N/A                            | ND            | PASS   |
| Parathion-methyl         | 0.03 / 0.10    | ≥ LOD               | N/A                            | ND            | PASS   |
| Pentachloronitrobenzene* | 0.03 / 0.09    | 0.2                 | N/A                            | ND            | PASS   |
| Permethrin               | 0.04 / 0.12    | 20                  | N/A                            | ND            | PASS   |
| Phosmet                  | 0.03 / 0.10    | 0.2                 | N/A                            | ND            | PASS   |
| Piperonyl Butoxide       | 0.02 / 0.07    | 8                   | N/A                            | ND            | PASS   |
| Prallethrin              | 0.03 / 0.08    | 0.4                 | N/A                            | ND            | PASS   |
| Propiconazole            | 0.02 / 0.07    | 20                  | N/A                            | ND            | PASS   |
| Propoxur                 | 0.03 / 0.09    | ≥ LOD               | N/A                            | ND            | PASS   |
| Pyrethrins               | 0.04 / 0.12    | 1                   | N/A                            | ND            | PASS   |
| Pyridaben                | 0.02 / 0.07    | 3                   | N/A                            | ND            | PASS   |
| Spinetoram               | 0.02 / 0.07    | 3                   | N/A                            | ND            | PASS   |
| Spinosad                 | 0.02 / 0.07    | 3                   | N/A                            | ND            | PASS   |
| Spiromesifen             | 0.02 / 0.05    | 12                  | N/A                            | ND            | PASS   |
| Spirotetramat            | 0.02 / 0.06    | 13                  | N/A                            | ND            | PASS   |
| Spiroxamine              | 0.03 / 0.08    | ≥ LOD               | N/A                            | ND            | PASS   |
| Tebuconazole             | 0.02 / 0.07    | 2                   | N/A                            | ND            | PASS   |
| Thiacloprid              | 0.03 / 0.10    | ≥ LOD               | N/A                            | ND            | PASS   |
| Thiamethoxam             | 0.03 / 0.10    | 4.5                 | N/A                            | ND            | PASS   |
| Trifloxystrobin          | 0.03 / 0.08    | 30                  | N/A                            | ND            | PASS   |



### Mycotoxin Analysis

MYCOTOXIN TEST RESULTS - 05/30/2023 ✔ PASS

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

**Method:** QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

| COMPOUND        | LOD/LOQ (µg/kg) | ACTION LIMIT (µg/kg) | MEASUREMENT UNCERTAINTY (µg/kg) | RESULT (µg/kg) | RESULT |
|-----------------|-----------------|----------------------|---------------------------------|----------------|--------|
| Aflatoxin B1    | 2.0 / 6.0       |                      | N/A                             | ND             |        |
| Aflatoxin B2    | 1.8 / 5.6       |                      | N/A                             | ND             |        |
| Aflatoxin G1    | 1.0 / 3.1       |                      | N/A                             | ND             |        |
| Aflatoxin G2    | 1.2 / 3.5       |                      | N/A                             | ND             |        |
| Total Aflatoxin |                 | 20                   |                                 | ND             | PASS   |
| Ochratoxin A    | 6.3 / 19.2      | 20                   | N/A                             | ND             | PASS   |



## Residual Solvents Analysis

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

**Method:** QSP 1204 - Analysis of Residual Solvents by GC-MS

### RESIDUAL SOLVENTS TEST RESULTS - 05/30/2023 PASS

| COMPOUND                             | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|--------------------------------------|----------------|---------------------|--------------------------------|---------------|--------|
| Propane                              | 10 / 20        | 5000                | N/A                            | ND            | PASS   |
| n-Butane                             | 10 / 50        | 5000                | N/A                            | ND            | PASS   |
| n-Pentane                            | 20 / 50        | 5000                | N/A                            | ND            | PASS   |
| n-Hexane                             | 2 / 5          | 290                 | N/A                            | ND            | PASS   |
| n-Heptane                            | 20 / 60        | 5000                | N/A                            | ND            | PASS   |
| Benzene                              | 0.03 / 0.09    | 1                   | N/A                            | ND            | PASS   |
| Toluene                              | 7 / 21         | 890                 | N/A                            | ND            | PASS   |
| Total Xylenes                        | 50 / 160       | 2170                | N/A                            | ND            | PASS   |
| Methanol                             | 50 / 200       | 3000                | N/A                            | ND            | PASS   |
| Ethanol                              | 20 / 50        | 5000                | N/A                            | ND            | PASS   |
| 2-Propanol (Isopropyl Alcohol)       | 10 / 40        | 5000                | N/A                            | ND            | PASS   |
| Acetone                              | 20 / 50        | 5000                | N/A                            | ND            | PASS   |
| Ethyl Ether                          | 20 / 50        | 5000                | N/A                            | ND            | PASS   |
| Ethylene Oxide                       | 0.3 / 0.8      | 1                   | N/A                            | ND            | PASS   |
| Ethyl Acetate                        | 20 / 60        | 5000                | N/A                            | ND            | PASS   |
| Chloroform                           | 0.1 / 0.2      | 1                   | N/A                            | ND            | PASS   |
| Dichloromethane (Methylene Chloride) | 0.3 / 0.9      | 1                   | N/A                            | ND            | PASS   |
| Trichloroethylene                    | 0.1 / 0.3      | 1                   | N/A                            | ND            | PASS   |
| 1,2-Dichloroethane                   | 0.05 / 0.1     | 1                   | N/A                            | ND            | PASS   |
| Acetonitrile                         | 2 / 7          | 410                 | N/A                            | ND            | PASS   |

## Microbiology Analysis

### PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

**Method:** QSP 1221 - Analysis of Microbiological Contaminants

### MICROBIOLOGY TEST RESULTS (PCR) - 06/03/2023 ND

| COMPOUND                      | RESULT |
|-------------------------------|--------|
| <i>Listeria monocytogenes</i> | ND     |

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

**Method:** QSP 6794 - Plating with 3M™ Petrifilm™

### MICROBIOLOGY TEST RESULTS (PLATING) - 06/03/2023 DETECTED

| COMPOUND               | RESULT (cfu/g) |
|------------------------|----------------|
| Total Aerobic Bacteria | 3900.0         |
| Total Yeast and Mold   | 40.0           |



**Customer:** Bimini LLC  
 Dr. Sam Murrani  
 1440 SW 41st Street, Suite B  
 Topeka, KS 66609  
 email: sam@biminipethealth.com

**LAB REPORT**

9503 N. Congress Ave., Kansas City, MO 64153  
 Phone: 816-891-7337 • Fax: 816-891-7450  
 gpal@gpalab.com • www.gpalab.com

**Batch:** 230523027  
**Report Date:** May 25, 2023  
**Received:** May 23, 2023  
**Customer PO:**

| Lab ID        | Sample Identification/Analysis    | Detection Limit | Result   | Units | Test Date |
|---------------|-----------------------------------|-----------------|----------|-------|-----------|
| 230523027-001 | CBDMD HIP & JOINT 5MG 230522B2064 |                 |          |       |           |
|               | Salmonella species - 25g          | Salmonella 25g  | Negative | 25g   | 5/24/2023 |
|               | STEC Top 7 - 25g                  | Top 7           | Negative | 25g   | 5/24/2023 |
|               | Staph. (Coag.Pos.)                | 10              | < 10     | cfu/g | 5/25/2023 |

**Batch Comments:** All samples tested for Listeria and/or Salmonella are first analyzed by the rapid methods. If a presumptive positive result is generated, culture confirmation is available upon customer request.

**Methods:** Salmonella species - 25g AOAC 2017.06  
 STEC Top 7 - 25g AOAC 121203  
 Staph. (Coag.Pos.) FDA BAM, Chapter 12

Approved by   
 Tom Fontana, Technical Services Manager

Environmental conditions are controlled at Great Plains Analytical Laboratory. The analytical results pertain only to the submitted sample and may not be construed as an endorsement of the sampling method employed. This report may not be distributed or reproduced except in full.

R=Rush Charges; SD=Same Day Charges; NC=No Charge