

SAMPLE NAME: pawcbd Hip and Joint Chews 300 mg

Infused, Hemp Infused

CULTIVATOR / MANUFACTURER

Business Name:

License Number:

Address:

DISTRIBUTOR / TESTED FOR

Business Name: Paw CBD

License Number:

Address:

SAMPLE DETAIL

Batch Number: 210806B1222

Sample ID: 210816U006

Date Collected: 08/16/2021

Date Received: 08/16/2021

Batch Size:

Sample Size: 1.0 units

Unit Mass: 105 grams per Unit

Serving Size:



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: Not Detected

Total CBD: 324.765 mg/unit

Sum of Cannabinoids: 345.345 mg/unit

Total Cannabinoids: 345.345 mg/unit

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

Total THC = $\Delta 9\text{THC} + (\text{THCa} \cdot 0.877)$

Total CBD = $\text{CBD} + (\text{CBDa} \cdot 0.877)$

Sum of Cannabinoids = $\Delta 9\text{THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} + \text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$

Total Cannabinoids = $(\Delta 9\text{THC} + 0.877 \cdot \text{THCa}) + (\text{CBD} + 0.877 \cdot \text{CBDa}) + (\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) + (\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$

SAFETY ANALYSIS - SUMMARY

Pesticides: ND

Mycotoxins: ND

Residual Solvents: ND

Heavy Metals: DETECTED

Microbiology (PCR): ND

For quality assurance purposes. Not a Pre-Harvest 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: Action Limits used in this report are a compilation of guidance from state regulatory agencies in all states. Action limits for required tests are either state-specific, or the lower of any conflicting state regulations based upon the panel requested.

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)

Lucy Murray
LOC verified by: Randy Vuong
Date: 08/18/2021

Josh Wurzer
Approved by: Josh Wurzer, President
Date: 08/18/2021

Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: **Not Detected**

Total THC (Δ^9 THC+0.877*THCa)

TOTAL CBD: **324.765 mg/unit**

Total CBD (CBD+0.877*CBDA)

TOTAL CANNABINOIDS: **345.345 mg/unit**

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ^8 THC + CBL + CBN

TOTAL CBG: **11.970 mg/unit**

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: **ND**

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: **ND**

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: **<LOQ**

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 08/18/2021

| COMPOUND | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g) | RESULT (%) |
|---------------------|----------------|--------------------------------|---------------|------------|
| CBD | 0.004 / 0.011 | ± 0.1482 | 3.093 | 0.3093 |
| CBG | 0.002 / 0.006 | ± 0.0071 | 0.114 | 0.0114 |
| CBN | 0.001 / 0.007 | ± 0.0030 | 0.082 | 0.0082 |
| CBDV | 0.002 / 0.012 | N/A | <LOQ | <LOQ |
| Δ^9 THC | 0.002 / 0.014 | N/A | ND | ND |
| Δ^8 THC | 0.01 / 0.02 | N/A | ND | ND |
| THCa | 0.001 / 0.005 | N/A | ND | ND |
| THCV | 0.002 / 0.012 | N/A | ND | ND |
| THCVa | 0.002 / 0.019 | N/A | ND | ND |
| CBDA | 0.001 / 0.026 | N/A | ND | ND |
| CBDVa | 0.001 / 0.018 | N/A | ND | ND |
| CBGa | 0.002 / 0.007 | N/A | ND | ND |
| CBL | 0.003 / 0.010 | N/A | ND | ND |
| CBC | 0.003 / 0.010 | N/A | ND | ND |
| CBCa | 0.001 / 0.015 | N/A | ND | ND |
| SUM OF CANNABINOIDS | | | 3.289 mg/g | 0.3289% |

Unit Mass: 105 grams per Unit

| | |
|------------------------------|-----------------|
| Δ^9 THC per Unit | ND |
| Total THC per Unit | ND |
| CBD per Unit | 324.765 mg/unit |
| Total CBD per Unit | 324.765 mg/unit |
| Sum of Cannabinoids per Unit | 345.345 mg/unit |
| Total Cannabinoids per Unit | 345.345 mg/unit |





Pesticide Analysis

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

PESTICIDE TEST RESULTS - 08/18/2021 ND

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

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Pesticide Analysis *Continued*

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

PESTICIDE TEST RESULTS - 08/18/2021 *continued* ND

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

Mycotoxin Analysis

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

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

MYCOTOXIN TEST RESULTS - 08/18/2021 ND

| COMPOUND | LOD/LOQ (µg/kg) | ACTION LIMIT (µg/kg) | MEASUREMENT UNCERTAINTY (µg/kg) | RESULT (µg/kg) |
|-----------------|-----------------|----------------------|---------------------------------|----------------|
| Aflatoxin B1 | 2.0 / 6.0 | 5 | N/A | ND |
| Aflatoxin B2 | 1.8 / 5.6 | 20 | N/A | ND |
| Aflatoxin G1 | 1.0 / 3.1 | 20 | N/A | ND |
| Aflatoxin G2 | 1.2 / 3.5 | 20 | N/A | ND |
| Total Aflatoxin | | 20 | | ND |
| Ochratoxin A | 6.3 / 19.2 | 5 | N/A | ND |





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 - 08/18/2021 ND

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



Heavy Metals Analysis

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS

HEAVY METALS TEST RESULTS - 08/17/2021 DETECTED

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) |
|----------|----------------|---------------------|--------------------------------|---------------|
| Arsenic | 0.02 / 0.1 | 0.42 | ±0.00 | 0.1 |
| Cadmium | 0.02 / 0.05 | 0.27 | N/A | <LOQ |
| Lead | 0.04 / 0.1 | 0.5 | N/A | ND |
| Mercury | 0.002 / 0.01 | 0.4 | N/A | ND |



Microbiology Analysis

PCR

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

Method: QSP 1221 - Analysis of Microbiological Contaminants

MICROBIOLOGY TEST RESULTS (PCR) - 08/18/2021 ND

| COMPOUND | ACTION LIMIT | RESULT |
|---|--------------------|--------|
| Shiga toxin-producing <i>Escherichia coli</i> | Not Detected in 1g | ND |
| <i>Salmonella</i> spp. | Not Detected in 1g | ND |
| <i>Listeria monocytogenes</i> | Detect | ND |



Certificate of Analysis

CBD Industries

8845 Red Oak Blvd
Charlotte North Carolina 28217 United States

| | | | |
|----------------------------|--|--------------------------|----------------------------------|
| Sample Name: | pawcbd Hip and Joint Chews 300 mg | Eurofins Sample: | 10857739 |
| Project ID | CBD_INDUST-20210813-0057 | Receipt Date | 16-Aug-2021 |
| PO Number | CVD | Receipt Condition | Ambient temperature |
| Lot Number | 210806B1222 | Login Date | 13-Aug-2021 |
| Sample Serving Size | | Date Started | 22-Aug-2021 |
| | | Sampled | Sample results apply as received |
| | | Online Order | 14794-15D9455D |

| Analysis | Result |
|---|------------------|
| Aerobic Plate Count | |
| Aerobic Plate Count | 1400 (est) CFU/g |
| Yeast and Mold Count | |
| Combined Yeast and Mold Count | <100 CFU/g |
| Preparatory Testing of Nutritional and Dietary Supplements | |
| Aerobic Plate Suitability Result | PASS |
| Total Combined Yeast-Molds Count | PASS |

| Method References | Testing Location |
|-------------------|------------------|
|-------------------|------------------|

Aerobic Plate Count (USPC2021)

Eurofins Micro Lab - Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

USP Current revision, Chapter 2021.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

Preparatory Testing of Nutritional and Dietary Supplements (USPC_PT)

Eurofins Micro Lab - Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Preparatory Testing of Nutritional and Dietary Supplements (USPM_PT)

Eurofins Micro Lab - Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Certificate of Analysis

CBD Industries

8845 Red Oak Blvd
Charlotte North Carolina 28217 United States

Method References

Testing Location

Yeast and Mold Count (USPM2021)

Eurofins Micro Lab - Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

USP Current revision, Chapter 2021.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

Edward Ladwig - President Eurofins Food Chemistr

Eurofins Food Chemistry Testing Madison, Inc.
6304 Ronald Reagan Ave
Madison WI 53704
800-675-8375

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins. Measurement uncertainty for individual analyses can be obtained upon request.