

SAMPLE NAME: Softgels 25mg

Infused, Colorado Infused

CULTIVATOR / MANUFACTURER
Business Name:
License Number:
Address:
DISTRIBUTOR / TESTED FOR
Business Name: Moon Mother Hemp Co.

License Number:
Address:

SAMPLE DETAIL
Batch Number: 32301

Sample ID: 230327S003

Date of Sampling: 03/27/2023

Time of Sampling: 4:22 p.m.

Sampler Name:
Sampler Company:
Date Collected: 03/27/2023

Date Received: 03/27/2023

Batch Size:
Sample Size: 1.0 units

Unit Mass: 18.171 grams per Unit

Serving Size: 0.6057 grams per Serving


Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY
Total THC: 24.658 mg/unit

Total CBD: 773.848 mg/unit

Sum of Cannabinoids: 865.103 mg/unit

Total Cannabinoids: 863.176 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 = Δ^9 -THC + (THCa (0.877))
 Total CBD = CBD + (CBDa (0.877))
 Sum of Cannabinoids = Δ^9 -THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ^8 -THC + CBL + CBN
 Total Cannabinoids = (Δ^9 -THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + Δ^8 -THC + CBL + CBN

SAFETY ANALYSIS - SUMMARY
Pesticides: ND

Heavy Metals: ✔ PASS

Mycotoxins: ✔ PASS

Microbiology (PCR): ✔ PASS

Residual Solvents: ND

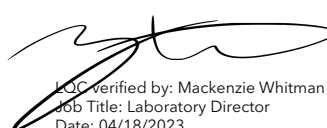
Microbiology (Plating): ✔ PASS

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: 6 CCR 1010-21 Colorado Wholesale Food, Industrial Hemp, and Shellfish Regulations; where applicable

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)


 LOC verified by: Mackenzie Whitman
 Job Title: Laboratory Director
 Date: 04/18/2023


 Approved by: Josh Wurzer
 Job Title: Chief Compliance Officer
 Date: 04/18/2023



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: 24.658 mg/unit

Total THC (Δ^9 -THC+0.877*THCa)

TOTAL CBD: 773.848 mg/unit

Total CBD (CBD+0.877*CBDA)

TOTAL CANNABINOIDS: 863.176 mg/unit

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

TOTAL CBG: 17.753 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 31.872 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 10.448 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 03/30/2023

| COMPOUND | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g) | RESULT (%) |
|----------------------------|----------------|--------------------------------|--------------------|----------------|
| CBD | 0.004 / 0.011 | ±1.5611 | 41.853 | 4.1853 |
| CBC | 0.003 / 0.010 | ±0.0558 | 1.732 | 0.1732 |
| Δ^9 -THC | 0.002 / 0.014 | ±0.0745 | 1.357 | 0.1357 |
| CBG | 0.002 / 0.006 | ±0.0474 | 0.977 | 0.0977 |
| CBDA | 0.001 / 0.026 | ±0.0238 | 0.837 | 0.0837 |
| CBDV | 0.002 / 0.012 | ±0.0235 | 0.575 | 0.0575 |
| CBN | 0.001 / 0.007 | ±0.0044 | 0.154 | 0.0154 |
| CBL | 0.003 / 0.010 | ±0.0037 | 0.099 | 0.0099 |
| CBCa | 0.001 / 0.015 | ±0.0010 | 0.025 | 0.0025 |
| CBDVa | 0.001 / 0.018 | N/A | <LOQ | <LOQ |
| 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 |
| CBGa | 0.002 / 0.007 | N/A | ND | ND |
| Total THC | | ±0.0745 | 1.357 | 0.1357 |
| SUM OF CANNABINOIDS | | | 47.609 mg/g | 4.7609% |

Unit Mass: 18.171 grams per Unit / Serving Size: 0.6057 grams per Serving

| | |
|---------------------------------|-------------------|
| Δ^9 -THC per Unit | 24.658 mg/unit |
| Δ^9 -THC per Serving | 0.822 mg/serving |
| Total THC per Unit | 24.658 mg/unit |
| Total THC per Serving | 0.822 mg/serving |
| CBD per Unit | 760.511 mg/unit |
| CBD per Serving | 25.350 mg/serving |
| Total CBD per Unit | 773.848 mg/unit |
| Total CBD per Serving | 25.795 mg/serving |
| Sum of Cannabinoids per Unit | 865.103 mg/unit |
| Sum of Cannabinoids per Serving | 28.837 mg/serving |
| Total Cannabinoids per Unit | 863.176 mg/unit |
| Total Cannabinoids per Serving | 28.772 mg/serving |



Pesticide Analysis

PESTICIDE TEST RESULTS - 04/05/2023 ND

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) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) |
|---------------------|----------------|--------------------------------|---------------|
| Abamectin | 0.032 / 0.097 | N/A | ND |
| Acephate | 0.006 / 0.018 | N/A | ND |
| Acequinocyl | 0.009 / 0.027 | N/A | ND |
| Acetamiprid | 0.016 / 0.049 | N/A | ND |
| Aldicarb | 0.030 / 0.090 | N/A | ND |
| Allethrin | 0.030 / 0.092 | N/A | ND |
| Atrazine | 0.006 / 0.019 | N/A | ND |
| Azadirachtin | 0.082 / 0.248 | N/A | ND |
| Azoxystrobin | 0.003 / 0.009 | N/A | ND |
| Benzovindiflupyr | 0.003 / 0.009 | N/A | ND |
| Bifenazate | 0.003 / 0.009 | N/A | ND |
| Bifenthrin | 0.021 / 0.064 | N/A | ND |
| Boscalid | 0.003 / 0.009 | N/A | ND |
| Buprofezin | 0.006 / 0.019 | N/A | ND |
| Carbaryl | 0.007 / 0.020 | N/A | ND |
| Carbofuran | 0.003 / 0.008 | N/A | ND |
| Chlorantraniliprole | 0.006 / 0.018 | N/A | ND |
| Chlorfenapyr* | 0.005 / 0.015 | N/A | ND |
| Chlorpyrifos | 0.013 / 0.039 | N/A | ND |
| Clofentezine | 0.003 / 0.009 | N/A | ND |
| Clothianidin | 0.008 / 0.025 | N/A | ND |
| Coumaphos | 0.003 / 0.010 | N/A | ND |
| Cyantraniliprole | 0.003 / 0.010 | N/A | ND |
| Cyfluthrin | 0.052 / 0.159 | N/A | ND |
| Cypermethrin | 0.051 / 0.153 | N/A | ND |
| Cyprodinil | 0.003 / 0.008 | N/A | ND |
| Daminozide | 0.026 / 0.077 | N/A | ND |
| Deltamethrin | 0.059 / 0.180 | N/A | ND |
| Diazinon | 0.006 / 0.017 | N/A | ND |
| Dichlorvos (DDVP) | 0.012 / 0.038 | N/A | ND |
| Dimethoate | 0.003 / 0.009 | N/A | ND |
| Dimethomorph | 0.016 / 0.050 | N/A | ND |
| Dinotefuran | 0.010 / 0.030 | N/A | ND |
| Diuron | 0.013 / 0.040 | N/A | ND |
| Dodemorph | 0.012 / 0.035 | N/A | ND |
| Endosulfan sulfate | 0.016 / 0.048 | N/A | ND |
| Endosulfan-α* | 0.004 / 0.014 | N/A | ND |
| Endosulfan-β* | 0.006 / 0.019 | N/A | ND |
| Ethoprophos | 0.003 / 0.009 | N/A | ND |
| Etofenprox | 0.014 / 0.042 | N/A | ND |
| Etoxazole | 0.007 / 0.020 | N/A | ND |

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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 04/05/2023 *continued ND*

| COMPOUND | LOD/LOQ (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) |
|--------------------------|----------------|--------------------------------|---------------|
| Etridiazole* | 0.002 / 0.005 | N/A | ND |
| Fenhexamid | 0.003 / 0.008 | N/A | ND |
| Fenoxycarb | 0.003 / 0.010 | N/A | ND |
| Fenpyroximate | 0.007 / 0.020 | N/A | ND |
| Fensulfothion | 0.003 / 0.010 | N/A | ND |
| Fenthion | 0.003 / 0.010 | N/A | ND |
| Fenvalerate | 0.033 / 0.099 | N/A | ND |
| Fipronil | 0.003 / 0.010 | N/A | ND |
| Flonicamid | 0.007 / 0.022 | N/A | ND |
| Fludioxonil | 0.003 / 0.010 | N/A | ND |
| Fluopyram | 0.003 / 0.009 | N/A | ND |
| Hexythiazox | 0.003 / 0.010 | N/A | ND |
| Imazalil | 0.003 / 0.009 | N/A | ND |
| Imidacloprid | 0.003 / 0.010 | N/A | ND |
| Iprodione | 0.077 / 0.233 | N/A | ND |
| Kinoprene | 0.077 / 0.233 | N/A | ND |
| Kresoxim-methyl | 0.006 / 0.019 | N/A | ND |
| λ-Cyhalothrin | 0.068 / 0.206 | N/A | ND |
| Malathion | 0.003 / 0.009 | N/A | ND |
| Metaxyl | 0.003 / 0.010 | N/A | ND |
| Methiocarb | 0.003 / 0.008 | N/A | ND |
| Methomyl | 0.008 / 0.025 | N/A | ND |
| Methoprene | 0.172 / 0.521 | N/A | ND |
| Mevinphos | 0.008 / 0.024 | N/A | ND |
| MGK-264 | 0.015 / 0.047 | N/A | ND |
| Myclobutanil | 0.003 / 0.009 | N/A | ND |
| Naled | 0.021 / 0.064 | N/A | ND |
| Novaluron | 0.002 / 0.005 | N/A | ND |
| Oxamyl | 0.017 / 0.051 | N/A | ND |
| Paclobutrazol | 0.003 / 0.010 | N/A | ND |
| Parathion-methyl | 0.016 / 0.050 | N/A | ND |
| Pentachloronitrobenzene* | 0.004 / 0.012 | N/A | ND |
| Permethrin | 0.056 / 0.168 | N/A | ND |
| Phenothrin | 0.016 / 0.047 | N/A | ND |
| Phosmet | 0.007 / 0.020 | N/A | ND |
| Piperonyl Butoxide | 0.010 / 0.029 | N/A | ND |
| Pirimicarb | 0.003 / 0.009 | N/A | ND |
| Prallethrin | 0.015 / 0.046 | N/A | ND |
| Propiconazole | 0.027 / 0.080 | N/A | ND |
| Propoxur | 0.003 / 0.008 | N/A | ND |
| Pyraclostrobin | 0.003 / 0.010 | N/A | ND |

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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 04/05/2023 *continued ND*

| COMPOUND | LOD/LOQ (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) |
|--------------------|----------------|--------------------------------|---------------|
| Pyrethrins | 0.016 / 0.049 | N/A | ND |
| Pyridaben | 0.005 / 0.017 | N/A | ND |
| Pyriproxyfen | 0.003 / 0.009 | N/A | ND |
| Resmethrin | 0.013 / 0.039 | N/A | ND |
| Spinetoram | 0.003 / 0.010 | N/A | ND |
| Spinosad | 0.003 / 0.010 | N/A | ND |
| Spirodiclofen | 0.031 / 0.093 | N/A | ND |
| Spiromesifen | 0.016 / 0.050 | N/A | ND |
| Spirotetramat | 0.003 / 0.010 | N/A | ND |
| Spiroxamine | 0.020 / 0.062 | N/A | ND |
| Tebuconazole | 0.003 / 0.010 | N/A | ND |
| Tebufozide | 0.003 / 0.008 | N/A | ND |
| Teflubenzuron | 0.007 / 0.022 | N/A | ND |
| Tetrachlorvinphos | 0.003 / 0.008 | N/A | ND |
| Tetramethrin | 0.021 / 0.063 | N/A | ND |
| Thiabendazole | 0.006 / 0.020 | N/A | ND |
| Thiacloprid | 0.003 / 0.009 | N/A | ND |
| Thiamethoxam | 0.003 / 0.010 | N/A | ND |
| Thiophanate-methyl | 0.013 / 0.040 | N/A | ND |
| Trifloxystrobin | 0.003 / 0.009 | N/A | ND |



Mycotoxin Analysis

MYCOTOXIN TEST RESULTS - 04/06/2023 ✓ 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 | 1.6 / 5.0 | 5 | N/A | ND | PASS |
| Aflatoxin B2 | 1.4 / 4.1 | | N/A | ND | |
| Aflatoxin G1 | 1.6 / 4.9 | | N/A | ND | |
| Aflatoxin G2 | 1.6 / 5.0 | | N/A | ND | |
| Total Aflatoxin | | 20 | | ND | PASS |
| Ochratoxin A | 1.6 / 5.0 | 5 | 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

Total Butanes = n-Butane + 2-Methylpropane (Isobutane)
Total Heptanes = 2,2-Dimethylpentane (Neoheptane) + 2,3-Dimethylpentane + 2,4-Dimethylpentane + 3,3-Dimethylpentane + 2,2,3-Trimethylbutane (Triptane) + 2-Methylhexane (Isoheptane) + 3-Methylhexane + 3-Ethylpentane + n-Heptane
Total Xylenes = 1,2-Dimethylbenzene (o-Xylene) + 1,3-Dimethylbenzene (m-Xylene) / 1,4-Dimethylbenzene (p-Xylene)

RESIDUAL SOLVENTS TEST RESULTS - 04/18/2023 ND

| COMPOUND | LOD/LOQ (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) |
|---|----------------|--------------------------------|---------------|
| Propane | 0.234 / 0.781 | N/A | ND |
| 2-Methylpropane (Isobutane) | 0.052 / 0.173 | N/A | ND |
| n-Butane | 0.019 / 0.063 | N/A | ND |
| Total Butanes | | | ND |
| n-Pentane | 0.310 / 1.033 | N/A | ND |
| n-Hexane | 0.110 / 0.366 | N/A | ND |
| 2,2-Dimethylpentane (Neoheptane) | 0.493 / 1.642 | N/A | ND |
| 2,3-Dimethylpentane | 1.009 / 3.365 | N/A | ND |
| 2,4-Dimethylpentane | 0.737 / 2.458 | N/A | ND |
| 3,3-Dimethylpentane | 0.198 / 0.660 | N/A | ND |
| 2,2,3-Trimethylbutane (Triptane) | 0.521 / 1.738 | N/A | ND |
| 2-Methylhexane (Isoheptane) | 0.610 / 2.034 | N/A | ND |
| 3-Methylhexane | 0.235 / 0.785 | N/A | ND |
| 3-Ethylpentane | 0.304 / 1.012 | N/A | ND |
| n-Heptane | 13.12 / 43.72 | N/A | ND |
| Total Heptanes | | | ND |
| Benzene | 0.089 / 0.295 | N/A | ND |
| Toluene | 0.115 / 0.382 | N/A | ND |
| 1,3-Dimethylbenzene / 1,4-Dimethylbenzene | 0.451 / 1.502 | N/A | ND |
| 1,2-Dimethylbenzene (o-Xylene) | 0.387 / 1.289 | N/A | ND |
| Total Xylenes | | | ND |
| Methanol | 53.92 / 163.4 | N/A | ND |
| Ethanol | 8.984 / 27.23 | N/A | ND |
| 2-Propanol (Isopropyl Alcohol) | 8.421 / 25.52 | N/A | ND |
| Acetone | 10.59 / 32.08 | N/A | ND |
| Ethyl Acetate | 1.123 / 3.745 | 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 - 04/01/2023 PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|----------|----------------|---------------------|--------------------------------|---------------|--------|
| Arsenic | 0.02 / 0.1 | 1.5 | N/A | ND | PASS |
| Cadmium | 0.02 / 0.05 | 0.5 | N/A | ND | PASS |
| Lead | 0.04 / 0.1 | 0.5 | N/A | ND | PASS |
| Mercury | 0.002 / 0.01 | 1.5 | 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

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

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

MICROBIOLOGY TEST RESULTS (PCR) - 04/10/2023 ✔ PASS

| COMPOUND | ACTION LIMIT | RESULT | RESULT |
|---|---------------------|--------|--------|
| Shiga toxin-producing <i>Escherichia coli</i> | Not Detected in 25g | ND | PASS |
| <i>Salmonella</i> spp. | Not Detected in 25g | ND | PASS |

MICROBIOLOGY TEST RESULTS (PLATING) - 04/10/2023 ✔ PASS

| COMPOUND | ACTION LIMIT (cfu/g) | RESULT (cfu/g) | RESULT |
|------------------------|----------------------|----------------|--------|
| Total Aerobic Bacteria | 10000 | ND | PASS |
| Total Yeast and Mold | 1000 | ND | PASS |
| Coliforms | 100 | ND | PASS |

NOTES

COA amended, update to assay details.