

CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 62150
 Order Name: Hemp
 Benefits 200 mg Pain cream
 Batch#: IC 003 DOM:
 04/04/2023
 Received: 04/15/2023
 Completed: 04/20/2023

Hemp Benefits LLC
 3330 Fairchild Gardens Ave Suite
 #31815
 Palm Beach Gardens FL, 33420
 (321) 754-3388
 info@myhempbenefits.com

Sample



0.016%
D9-THC

0.476%
Total CBD

229.5 mg
Cannabinoids per
unit

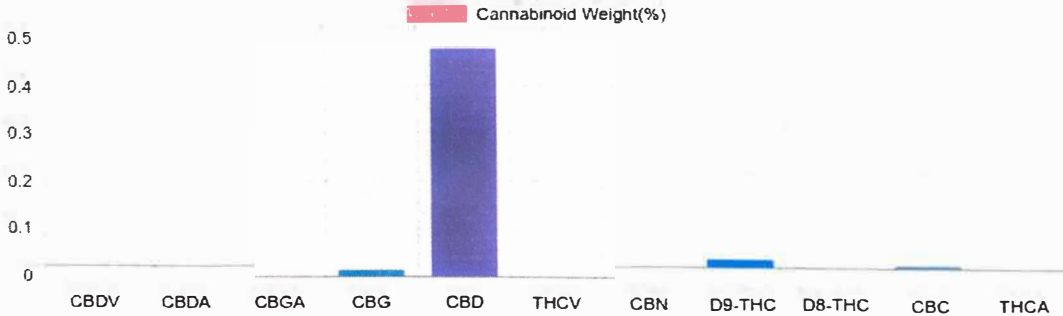
214.2 mg
CBD per
unit

1 unit = 45 grams per unit x Cannabinoid concentration

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
 GSL SOP 400

| Cannabinoids | LOQ | weight(%) | mg/g | mg/unit |
|--------------------|--------|-----------|--------|---------|
| D9-THC | 10 PPM | 0.016% | 0.162 | 7.3 |
| THCA | 10 PPM | N/D | N/D | N/D |
| CBD | 10 PPM | 0.476% | 4.760 | 214.2 |
| CBDA | 20 PPM | N/D | N/D | N/D |
| CBDV | 20 PPM | N/D | N/D | N/D |
| CBC | 10 PPM | 0.005% | 0.048 | 2.2 |
| CBN | 10 PPM | N/D | N/D | N/D |
| CBG | 10 PPM | 0.013% | 0.128 | 5.8 |
| CBGA | 20 PPM | N/D | N/D | N/D |
| D8-THC | 10 PPM | N/D | N/D | N/D |
| THCV | 10 PPM | N/D | N/D | N/D |
| TOTAL D9-THC | | 0.016% | 0.016% | 7.3 |
| TOTAL CBD* | | 0.476% | 4.760 | 214.2 |
| TOTAL CANNABINOIDS | | 0.510% | 5.098 | 229.5 |



Reporting Limit 10 ppm
 *Total CBD = CBD + CBDA x 0.877
 N/D - Not Detected, B/L.OQ - Below Limit of Quantification

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

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PESTICIDE ANALYSIS:

GSL SOP 401

GCMS-MS - Shimadzu GCMS-TQ8040

| Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------|--------------------|---------------|-----------|-----------|
| CAPTAN | 3.000 | N/D | 0.003 | 0.001 |
| CHLORDANE | 0.100 | N/D | 0.003 | 0.001 |
| CHLORFENAPYR | 0.100 | N/D | 0.003 | 0.001 |
| COUMAPHOS | 0.100 | N/D | 0.003 | 0.001 |

| Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-------------------------|--------------------|---------------|-----------|-----------|
| CYFLUTHRIN | 1.000 | N/D | 0.003 | 0.001 |
| CYPERMETHRIN | 1.000 | N/D | 0.003 | 0.001 |
| PENTACHLORONITROBENZENE | 0.200 | N/D | 0.003 | 0.001 |

LCMS-MS - Shimadzu LCMS-8060

| Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|----------------------|--------------------|---------------|-----------|-----------|
| ABAMECTIN B1A | 0.300 | N/D | 0.005 | 0.001 |
| ACEPHATE | 3.000 | N/D | 0.001 | 0.001 |
| ACEQUINOCYL | 2.000 | N/D | 0.001 | 0.001 |
| ACETAMIPRID | 3.000 | N/D | 0.005 | 0.001 |
| ALDICARB | 0.100 | N/D | 0.005 | 0.001 |
| AZOXYSTROBIN | 3.000 | N/D | 0.001 | 0.001 |
| BIFENAZATE | 3.000 | N/D | 0.005 | 0.001 |
| BIFENTHRIN | 0.500 | N/D | 0.005 | 0.001 |
| BOSCALID | 3.000 | N/D | 0.005 | 0.001 |
| CARBARYL | 0.500 | N/D | 0.003 | 0.001 |
| CARBOFURAN | 0.100 | N/D | 0.001 | 0.001 |
| CHLORANTRANILIPROLE | 3.000 | N/D | 0.005 | 0.005 |
| CHLORMEQUAT CHLORIDE | 3.000 | N/D | 0.025 | 0.025 |
| CHLORPYRIFOS | 0.100 | N/D | 0.001 | 0.001 |
| CLOFENTEZINE | 0.500 | N/D | 0.001 | 0.001 |
| DAMINOZIDE | 0.100 | N/D | 0.005 | 0.001 |
| DIAZINON | 0.200 | N/D | 0.001 | 0.001 |
| DICHLORVOS | 0.100 | N/D | 0.005 | 0.001 |
| DIMETHOATE | 0.100 | N/D | 0.001 | 0.001 |
| DIMETHOMORPH | 3.000 | N/D | 0.005 | 0.001 |
| ETHOPROPHOS | 0.100 | N/D | 0.001 | 0.001 |
| ETOFENPROX | 0.100 | N/D | 0.001 | 0.001 |
| ETOXAZOLE | 1.500 | N/D | 0.010 | 0.005 |
| FENHEXAMID | 3.000 | N/D | 0.005 | 0.001 |
| FENOXYCARB | 0.100 | N/D | 0.005 | 0.001 |
| FENPYROXIMATE | 2.000 | N/D | 0.001 | 0.001 |
| FIPRONIL | 0.100 | N/D | 0.003 | 0.001 |
| FLONICAMID | 2.000 | N/D | 0.025 | 0.010 |
| FLUDIOXONIL | 3.000 | N/D | 0.003 | 0.001 |
| HEXYTHIAZOX | 2.000 | N/D | 0.005 | 0.001 |

| Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------------------|--------------------|---------------|-----------|-----------|
| IMAZALIL | 0.100 | N/D | 0.005 | 0.001 |
| IMIDACLOPRID | 3.000 | N/D | 0.005 | 0.001 |
| KRESOXIM-METHYL | 1.000 | N/D | 0.010 | 0.005 |
| MALATHION | 2.000 | N/D | 0.005 | 0.001 |
| METALAXYL | 3.000 | N/D | 0.001 | 0.001 |
| METHIOCARB | 0.100 | N/D | 0.005 | 0.001 |
| METHOMYL | 0.100 | N/D | 0.001 | 0.001 |
| MEVINPHOS | 0.100 | N/D | 0.001 | 0.001 |
| MYCLOBUTANIL | 3.000 | N/D | 0.005 | 0.001 |
| NALED | 0.500 | N/D | 0.005 | 0.001 |
| OXAMYL | 0.500 | N/D | 0.001 | 0.001 |
| PACLOBUTRAZOL | 0.100 | N/D | 0.005 | 0.001 |
| PERMETHRINS | 1.000 | N/D | 0.005 | 0.001 |
| PHOSMET | 0.200 | N/D | 0.005 | 0.001 |
| PIPERONYL BUTOXIDE | 3.000 | N/D | 0.001 | 0.001 |
| PRALLETHRIN | 0.400 | N/D | 0.005 | 0.005 |
| PROPICONAZOLE | 1.000 | N/D | 0.010 | 0.005 |
| PROPOXUR | 0.100 | N/D | 0.001 | 0.001 |
| PYRETHRINS (PYRETHRIN I) | 1.000 | N/D | 0.005 | 0.005 |
| PYRIDABEN | 3.000 | N/D | 0.005 | 0.001 |
| SPINETORAM | 3.000 | N/D | 0.001 | 0.001 |
| SPINOSAD | 3.000 | N/D | 0.001 | 0.001 |
| SPIROMESIFEN | 3.000 | N/D | 0.005 | 0.001 |
| SPIROTETRAMAT | 3.000 | N/D | 0.001 | 0.001 |
| SPIROXAMINE | 0.100 | N/D | 0.001 | 0.001 |
| TEBUCONAZOLE | 1.000 | N/D | 0.005 | 0.001 |
| THIACLOPRID | 0.100 | N/D | 0.001 | 0.001 |
| THIAMETHOXAM | 1.000 | N/D | 0.001 | 0.001 |
| TRIFLOXYSTROBIN | 3.000 | N/D | 0.001 | 0.001 |

N/D = Not Detected, A/LOQ = Above LOQ Level, B/LOQ = Below LOQ Level, B/LOD = Below LOD Level

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Ben Witten, MS, MT., Lab Director

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RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

| Residual Solvent | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------------------|--------------------|---------------|-----------|-----------|
| 1,1-DICHLOROETHENE | 8 | N/D | 0.63 | 0.63 |
| 1,2- DICHLOROETHANE | 2 | N/D | 0.12 | 0.02 |
| ACETONE | 5,000 | N/D | 140 | 20 |
| ACETONITRILE | 410 | N/D | 25 | 1 |
| BENZENE | 1 | N/D | 1 | 0.5 |
| BUTANE | 5,000 | N/D | 50 | 10 |
| CHLOROFORM | 1 | N/D | | 0.5 |
| CIS 1,2-DICHLOROETHENE | 5 | N/D | 0.73 | 0.18 |
| ETHANOL | 5,000 | N/D | 140 | 20 |
| ETHYL ACETATE | 5,000 | N/D | 140 | 20 |
| ETHYL ETHER | 5,000 | N/D | 140 | 20 |
| ETHYLENE OXIDE | 1 | N/D | 0 | 0 |
| ISOPROPYL ALCOHOL | 5,000 | N/D | 140 | 20 |
| METHANOL | 3,000 | N/D | 100 | 20 |
| METHYLENE CHLORIDE | 125 | N/D | 0.15 | 0.15 |
| N-HEPTANE | 5,000 | N/D | 140 | 20 |
| N-HEXANE | 290 | N/D | 18 | 10 |
| PENTANE | 5,000 | N/D | 140 | 20 |
| PROPANE | 5,000 | N/D | 20 | |
| TOLUENE | 890 | N/D | 53 | |
| TRANS 1,2-DICHLOROETHENE | | N/D | 0.73 | 0.18 |
| TRICHLOROETHENE | | N/D | | 0.5 |
| XYLENES | 150 | N/D | 130 | 20 |

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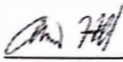


Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030
 GSL SOP 403

| Metal | Action Level (ppb) | Result (ppb) |
|--------------|--------------------|--------------|
| ARSENIC (AS) | 200 | B/LOQ |
| CADMIUM (CD) | 200 | B/LOQ |
| MERCURY (HG) | 100 | B/LOQ |
| LEAD (PB) | 500 | B/LOQ |

Lower Limit of Quantitation (LOQ) is 75 ppb


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 Completed: 04/20/2023

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Microbial Analysis:

Microbial Analysis GSL SOP 406

PCR - Agilent AriaMX

MICROBIAL ANALYSIS:

PCR - Agilent AriaMX

| Test | SOP | Test Method | Device Used | LOD | Allowable Criteria | Actual Result | Pass/Fail |
|--------------------------|--------|-------------|-------------|------------------------|---------------------|---------------|-----------|
| ASPERGILLUS FUMIGATUS*** | 406.01 | USP 61/62† | ARIAMX PCR | 1 CFU/G** | DETECT/NOT DETECTED | NOT DETECTED | PASS |
| ASPERGILLUS TERREUS*** | 406.01 | USP 61/62† | ARIAMX PCR | 1 CFU/G** | DETECT/NOT DETECTED | NOT DETECTED | PASS |
| ASPERGILLUS FLAVUS*** | 406.01 | USP 61/62† | ARIAMX PCR | 1 CFU/G** | DETECT/NOT DETECTED | NOT DETECTED | PASS |
| ASPERGILLUS NIGER*** | 406.01 | USP 61/62† | ARIAMX PCR | 1 CFU/G** | DETECT/NOT DETECTED | NOT DETECTED | PASS |
| STEC E. COLI* | 406.01 | USP 61/62† | ARIAMX PCR | 1 CFU/G** | DETECT/NOT DETECTED | NOT DETECTED | PASS |
| SALMONELLA* | 406.01 | USP 61/62† | ARIAMX PCR | 1 CFU/G** | DETECT/NOT DETECTED | NOT DETECTED | PASS |
| TOTAL YEAST AND MOLD | 406.01 | USP 61/62† | ARIAMX PCR | CFU/G BY SAMPLE TYPE** | 10,000 CFU/G | NOT DETECTED | PASS |
| AEROBIC BACTERIA COUNT | 406.01 | USP 61/62† | ARIAMX PCR | CFU/G BY SAMPLE TYPE** | 100,000 CFU/G | NOT DETECTED | PASS |
| ENTEROBACTERACEAE | 406.01 | USP 61/62† | ARIAMX PCR | CFU/G BY SAMPLE TYPE** | 1,000 CFU/G | NOT DETECTED | PASS |
| COLIFORM | 406.01 | USP 61/62† | ARIAMX PCR | CFU/G BY SAMPLE TYPE** | 1,000 CFU/G | NOT DETECTED | PASS |

† USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc)
 * STEC and Salmonella run as Multiplex
 ** CFU/g Calculation based on MIP/Extract matrix
 *** Flavus = 2 Copies of DNA / Fumigatus = 2 Copies of DNA Niger = 20 Copies of DNA / Terres = 10 copies of DNA

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