# CERTIFICATE OF ANALYSIS
## ISO/IEC 17025:2017 ACCREDITATION #103104

**green** SCIENTIFIC LABS

**Order #:** 63703
**Order Name:** Massage Oil 20mg
**Batch#:** CCA-KO220
**Received:** 10/07/2020
**Completed:** 10/14/2020

## Sample



| N/D | 0.025% |
|-----|--------|
| D9-THC | Total CBD |

| 28.8 mg | 28.8 mg |
|---------|---------|
| Cannabinoids per unit | CBD per unit |

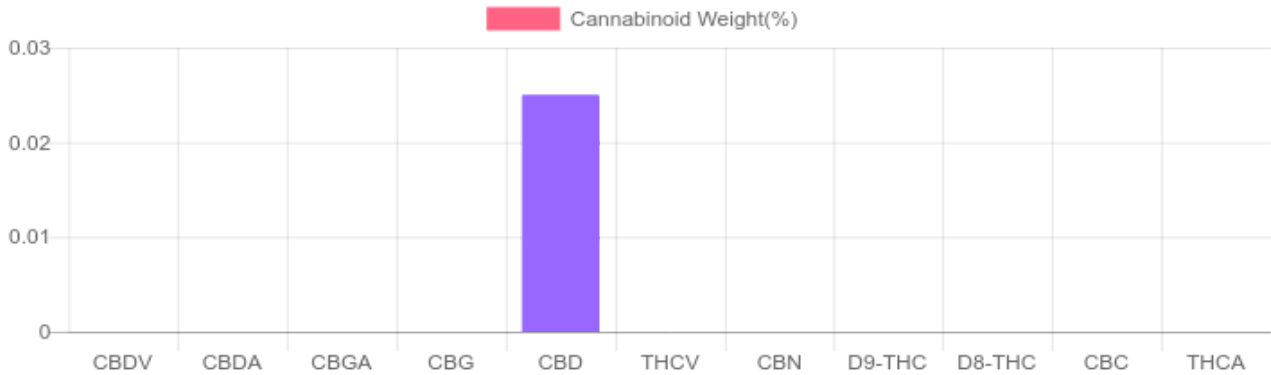1 unit = 113.4 grams per unit x Cannabinoid concentration

## Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
GSL SOP 400

**UPLOADED:** 10/12/2020 17:37:25

| Cannabinoids | LOQ | weight(%) | mg/g | mg/unit |
|--------------|-----|-----------|------|---------|
| D9-THC | 10 PPM | N/D | N/D | N/D |
| THCA | 10 PPM | N/D | N/D | N/D |
| CBD | 10 PPM | 0.025% | 0.254 | 28.8 |
| CBDA | 20 PPM | N/D | N/D | N/D |
| CBDV | 20 PPM | N/D | N/D | N/D |
| CBC | 10 PPM | N/D | N/D | N/D |
| CBN | 10 PPM | N/D | N/D | N/D |
| CBG | 10 PPM | N/D | N/D | N/D |
| 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 | | **N/D** | **N/D** | **N/D** |
| TOTAL CBD* | | **0.025%** | **0.254** | **28.8** |
| TOTAL CANNABINOIDS | | **0.025%** | **0.254** | **28.8** |



Cannabinoid Weight(%)

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

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

Ben Witten, MS, MT., Lab Director

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1-833 TEST CBD

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## PESTICIDE ANALYSIS:

GSL SOP 401        **PREPARED:** 10/12/2020 20:33:10        **UPLOADED:** 10/13/2020 19:38:08

GCMS-MS - Shimadzu GCMS-TQ8040

| Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) | Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|---|---|---|---|---|---|---|---|---|---|
| CAPTAN | 0.700 | N/D | 0.003 | 0.001 | CYFLUTHRIN | 2.000 | N/D | 0.003 | 0.001 |
| CHLORDANE | 0.100 | N/D | 0.003 | 0.001 | CYPERMETHRIN | 1.000 | N/D | 0.003 | 0.001 |
| CHLORFENAPYR | 0.100 | N/D | 0.003 | 0.001 | PARATHION-METHYL | 0.100 | N/D | 0.003 | 0.001 |
| COUMAPHOS | 0.100 | N/D | 0.003 | 0.001 | PENTACHLORONITROBENZENE | 0.100 | N/D | 0.003 | 0.001 |

LCMS-MS - Shimadzu LCMS-8060

| Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) | Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|---|---|---|---|---|---|---|---|---|---|
| ABAMECTIN B1A | 0.100 | N/D | 0.005 | 0.001 | IMIDACLOPRID | 5.000 | N/D | 0.005 | 0.001 |
| ACEPHATE | 0.100 | N/D | 0.001 | 0.001 | KRESOXIM-METHYL | 0.100 | N/D | 0.010 | 0.005 |
| ACEQUINOCYL | 0.100 | N/D | 0.001 | 0.001 | MALATHION | 0.500 | N/D | 0.005 | 0.001 |
| ACETAMIPRID | 0.100 | N/D | 0.005 | 0.001 | METALAXYL | 2.000 | N/D | 0.001 | 0.001 |
| ALDICARB | 0.100 | N/D | 0.005 | 0.001 | METHIOCARB | 0.100 | N/D | 0.005 | 0.001 |
| AZOXYSTROBIN | 0.100 | N/D | 0.001 | 0.001 | METHOMYL | 1.000 | N/D | 0.001 | 0.001 |
| BIFENAZATE | 0.100 | N/D | 0.005 | 0.001 | MEVINPHOS | 0.100 | N/D | 0.001 | 0.001 |
| BIFENTHRIN | 3.000 | N/D | 0.005 | 0.001 | MYCLOBUTANIL | 0.100 | N/D | 0.005 | 0.001 |
| BOSCALID | 0.100 | N/D | 0.005 | 0.001 | NALED | 0.100 | N/D | 0.005 | 0.001 |
| CARBARYL | 0.500 | N/D | 0.003 | 0.001 | OXAMYL | 0.500 | N/D | 0.001 | 0.001 |
| CARBOFURAN | 0.100 | N/D | 0.001 | 0.001 | PACLOBUTRAZOL | 0.100 | N/D | 0.005 | 0.001 |
| CHLORANTRANILIPROLE | 10.000 | N/D | 0.005 | 0.005 | PERMETHRINS | 0.500 | N/D | 0.005 | 0.001 |
| CHLORPYRIFOS | 0.100 | N/D | 0.001 | 0.001 | PHOSMET | 0.100 | N/D | 0.005 | 0.001 |
| CLOFENTEZINE | 0.100 | N/D | 0.001 | 0.001 | PIPERONYL BUTOXIDE | 3.000 | N/D | 0.001 | 0.001 |
| DAMINOZIDE | 0.100 | N/D | 0.005 | 0.001 | PRALLETHRIN | 0.100 | N/D | 0.005 | 0.005 |
| DIAZINON | 0.100 | N/D | 0.001 | 0.001 | PROPICONAZOLE | 0.100 | N/D | 0.010 | 0.005 |
| DICHLORVOS | 0.100 | N/D | 0.005 | 0.001 | PROPOXUR | 0.100 | N/D | 0.001 | 0.001 |
| DIMETHOATE | 0.100 | N/D | 0.001 | 0.001 | PYRETHRINS (PYRETHRIN I) | 0.500 | N/D | 0.005 | 0.005 |
| DIMETHOMORPH | 2.000 | N/D | 0.005 | 0.001 | PYRIDABEN | 0.100 | N/D | 0.005 | 0.001 |
| ETHOPROPHOS | 0.100 | N/D | 0.001 | 0.001 | SPINETORAM | 0.100 | N/D | 0.001 | 0.001 |
| ETOFENPROX | 0.100 | N/D | 0.001 | 0.001 | SPINOSAD | 0.100 | N/D | 0.001 | 0.001 |
| ETOXAZOLE | 0.100 | N/D | 0.010 | 0.005 | SPIROMESIFEN | 0.100 | N/D | 0.005 | 0.001 |
| FENHEXAMID | 0.100 | N/D | 0.005 | 0.001 | SPIROTETRAMAT | 0.100 | N/D | 0.001 | 0.001 |
| FENOXYCARB | 0.100 | N/D | 0.005 | 0.001 | SPIROXAMINE | 0.100 | N/D | 0.001 | 0.001 |
| FENPYROXIMATE | 0.100 | N/D | 0.001 | 0.001 | TEBUCONAZOLE | 0.100 | N/D | 0.005 | 0.001 |
| FIPRONIL | 0.100 | N/D | 0.003 | 0.001 | THIACLOPRID | 0.100 | N/D | 0.001 | 0.001 |
| FLONICAMID | 0.100 | N/D | 0.025 | 0.010 | THIAMETHOXAM | 5.000 | N/D | 0.001 | 0.001 |
| FLUDIOXONIL | 0.100 | N/D | 0.003 | 0.001 | TRIFLOXYSTROBIN | 0.100 | N/D | 0.001 | 0.001 |
| HEXYTHIAZOX | 0.100 | N/D | 0.005 | 0.001 | | | | | |
| IMAZALIL | 0.100 | N/D | 0.005 | 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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**Completed:** 10/14/2020

## RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405
**Prepared:** 10/12/2020 19:14:26
**Uploaded:** 10/13/2020 18:12:43

| 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 | 1 | 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 | 1 |
| TOLUENE | 890 | N/D | 53 | 1 |
| TRANS 1,2-DICHLOROETHENE | 5 | N/D | 0.73 | 0.18 |
| TRICHLOROETHENE | 1 | N/D | 1 | 0.5 |
| XYLENES | 150 | N/D | 130 | 20 |

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## Microbial Analysis:

PCR - Agilent AriaMX

**Microbial Analysis** GSL SOP 406

**Uploaded:** 10/13/2020 16:45:15

## 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 |
| ENTEROBACTERIACEAE | 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 / Fumigatis = 2 Copies of DNA Niger = 20 Copies of DNA / Terrus = 10 copies of DNA

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## Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060
GSL SOP 401

**Uploaded:** 10/13/2020 16:43:56

| Analyte | Action Lvl (ppb) | Results (ppb) |
|---|---|---|
| AFLATOXIN B1 | 20 | N/D |
| AFLATOXIN B2 | 20 | N/D |
| AFLATOXIN G1 | 20 | N/D |
| AFLATOXIN G2 | 20 | N/D |
| OCHRATOXIN A | 20 | N/D |

LOQ is 1ppb, LOD is 1ppb

## Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030
GSL SOP 403

**Uploaded:** 10/13/2020 15:52:39

| 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

## Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

**Uploaded:** 10/13/2020 23:52:23

**Water**

0.56

## Filth and Foreign Materials Analysis:

Microscope - Amscope Simul-Focal Trinocular Stereo Zoom Microscope - GSL SOP 409

**Uploaded:** 10/14/2020 16:23:19

Pass: No Foreign Materials Detected

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