

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 68783  
**Order Name:** Medterra 1000mg  
 CBD Tincture with MCT Oil  
 20SM3207  
**Batch#:** 20SM3207  
**Received:** 01/06/2021  
**Completed:** 01/14/2021

**Medterra CBD, LLC**  
 9801 Research Drive  
 Irvine CA, 92618  
 (800) 971-1288  
 support@medterracbd.com



### Sample



|  |                                   |
|--|-----------------------------------|
| <b>N/D</b><br>D9-THC                       | <b>3.818%</b><br>Total CBD        |
| <b>1,082.3 mg</b><br>Cannabinoids per unit | <b>1,082.3 mg</b><br>CBD per unit |

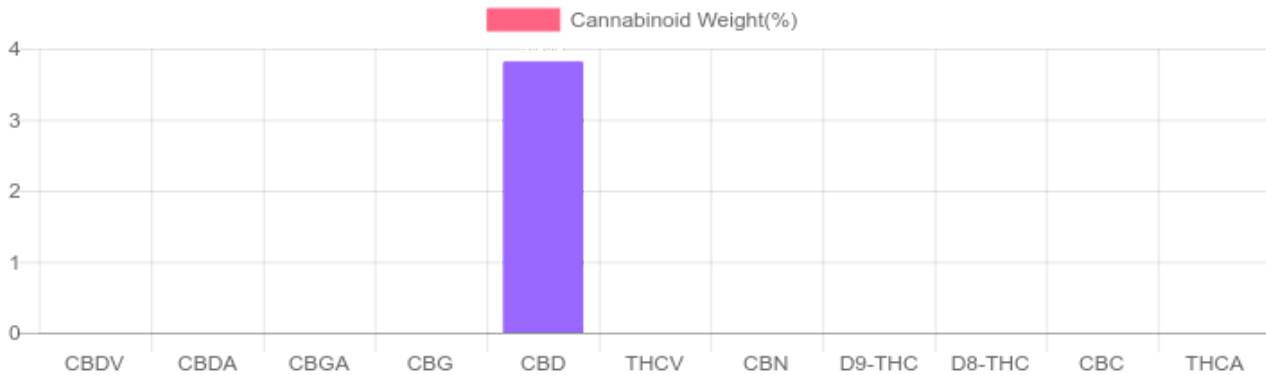
### Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA  
 GSL SOP 400

UPLOADED: 01/07/2021 12:39:00

| 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            |
| <b>CBD</b>         | <b>10 PPM</b> | <b>3.818%</b> | <b>38.178</b> | <b>1,082.3</b> |
| 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       |               | <b>N/D</b>    | <b>N/D</b>    | <b>N/D</b>     |
| TOTAL CBD*         |               | <b>3.818%</b> | <b>38.178</b> | <b>1,082.3</b> |
| TOTAL CANNABINOIDS |               | <b>3.818%</b> | <b>38.178</b> | <b>1,082.3</b> |

1 unit = 30 ml per unit x density (0.945) x  
 Cannabinoid concentration



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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### PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 01/06/2021 19:35:14

UPLOADED: 01/07/2021 12:42:04

GCMS-MS - Shimadzu GCMS-TQ8040

| Pesticide    | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------|--------------------|---------------|-----------|-----------|
| CAPTAN       | 0.700              | 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              | 2.000              | N/D           | 0.003     | 0.001     |
| CYPERMETHRIN            | 1.000              | N/D           | 0.003     | 0.001     |
| PARATHION-METHYL        | 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) |
|---------------------|--------------------|---------------|-----------|-----------|
| ABAMECTIN B1A       | 0.100              | N/D           | 0.005     | 0.001     |
| ACEPHATE            | 0.100              | N/D           | 0.001     | 0.001     |
| ACEQUINOCYL         | 0.100              | N/D           | 0.001     | 0.001     |
| ACETAMIPRID         | 0.100              | N/D           | 0.005     | 0.001     |
| ALDICARB            | 0.100              | N/D           | 0.005     | 0.001     |
| AZOXYSTROBIN        | 0.100              | N/D           | 0.001     | 0.001     |
| BIFENAZATE          | 0.100              | N/D           | 0.005     | 0.001     |
| BIFENTHRIN          | 3.000              | N/D           | 0.005     | 0.001     |
| BOSCALID            | 0.100              | 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 | 10.000             | N/D           | 0.005     | 0.005     |
| CHLORPYRIFOS        | 0.100              | N/D           | 0.001     | 0.001     |
| CLOFENTEZINE        | 0.100              | N/D           | 0.001     | 0.001     |
| DAMINOZIDE          | 0.100              | N/D           | 0.005     | 0.001     |
| DIAZINON            | 0.100              | 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        | 2.000              | 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           | 0.100              | N/D           | 0.010     | 0.005     |
| FENHEXAMID          | 0.100              | N/D           | 0.005     | 0.001     |
| FENOXYCARB          | 0.100              | N/D           | 0.005     | 0.001     |
| FENPYROXIMATE       | 0.100              | N/D           | 0.001     | 0.001     |
| FIPRONIL            | 0.100              | N/D           | 0.003     | 0.001     |
| FLONICAMID          | 0.100              | N/D           | 0.025     | 0.010     |
| FLUDIOXONIL         | 0.100              | N/D           | 0.003     | 0.001     |
| HEXYTHIAZOX         | 0.100              | N/D           | 0.005     | 0.001     |
| IMAZALIL            | 0.100              | N/D           | 0.005     | 0.001     |

| Pesticide                | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------------------|--------------------|---------------|-----------|-----------|
| IMIDACLOPRID             | 5.000              | N/D           | 0.005     | 0.001     |
| KRESOXIM-METHYL          | 0.100              | N/D           | 0.010     | 0.005     |
| MALATHION                | 0.500              | N/D           | 0.005     | 0.001     |
| METALAXYL                | 2.000              | N/D           | 0.001     | 0.001     |
| METHIOCARB               | 0.100              | N/D           | 0.005     | 0.001     |
| METHOMYL                 | 1.000              | N/D           | 0.001     | 0.001     |
| MEVINPHOS                | 0.100              | N/D           | 0.001     | 0.001     |
| MYCLOBUTANIL             | 0.100              | N/D           | 0.005     | 0.001     |
| NALED                    | 0.100              | 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              | 0.500              | N/D           | 0.005     | 0.001     |
| PHOSMET                  | 0.100              | N/D           | 0.005     | 0.001     |
| PIPERONYL                |                    |               |           |           |
| BUTOXIDE                 | 3.000              | N/D           | 0.001     | 0.001     |
| PRALLETHRIN              | 0.100              | N/D           | 0.005     | 0.005     |
| PROPICONAZOLE            | 0.100              | N/D           | 0.010     | 0.005     |
| PROPOXUR                 | 0.100              | N/D           | 0.001     | 0.001     |
| PYRETHRINS (PYRETHRIN I) | 0.500              | N/D           | 0.005     | 0.005     |
| PYRIDABEN                | 0.100              | N/D           | 0.005     | 0.001     |
| SPINETORAM               | 0.100              | N/D           | 0.001     | 0.001     |
| SPINOSAD                 | 0.100              | N/D           | 0.001     | 0.001     |
| SPIROMESIFEN             | 0.100              | N/D           | 0.005     | 0.001     |
| SPIROTETRAMAT            | 0.100              | N/D           | 0.001     | 0.001     |
| SPIROXAMINE              | 0.100              | N/D           | 0.001     | 0.001     |
| TEBUCONAZOLE             | 0.100              | N/D           | 0.005     | 0.001     |
| THIACLOPRID              | 0.100              | N/D           | 0.001     | 0.001     |
| THIAMETHOXAM             | 5.000              | N/D           | 0.001     | 0.001     |
| TRIFLOXYSTROBIN          | 0.100              | 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

**Prepared:** 01/08/2021 21:31:55

**Uploaded:** 01/11/2021 13:02:09

| 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:

Microbial Analysis GSL SOP 406

PCR - Agilent AriaMX

Uploaded: 01/08/2021 16:44:29

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### 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      |

† 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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### Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030  
GSL SOP 403

Uploaded: 01/14/2021 07:12:57

| Metal        | Action Level (ppb) | Result (ppb) |
|--------------|--------------------|--------------|
| ARSENIC (AS) | 2,000              | B/LOQ        |
| CADMIUM (CD) | 2,000              | B/LOQ        |
| MERCURY (HG) | 1,000              | B/LOQ        |
| LEAD (PB)    | 5,000              | B/LOQ        |

Lower Limit of Quantitation (LOQ) is 75 ppb

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