

CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 69818
 Order Name: PurMed 3000mg
 Batch#: G210230001
 Received: 01/14/2021
 Completed: 02/24/2021



Sample



Cannabinoids Test

HPLC-DAD
 GSL SOP 400
 PREPARED: 02/25/2021 10:56:06
 UPLOADED: 02/26/2021 15:27:02

| Cannabinoids | LOQ(mg/g) | weight(%) | mg/g | mg/unit |
|--------------------|-----------|----------------|----------------|------------------|
| D9-THC | 0.1954 | N/D | N/D | N/D |
| THCA | 0.1954 | N/D | N/D | N/D |
| CBD | 0.1954 | 10.403% | 104.031 | 2,949.279 |
| CBDA | 0.1954 | N/D | N/D | N/D |
| CBDV | 0.1954 | 0.020% | 0.198 | 5.613 |
| CBC | 0.1954 | N/D | N/D | N/D |
| CBN | 0.1954 | N/D | N/D | N/D |
| CBG | 0.1954 | N/D | N/D | N/D |
| CBGA | 0.1954 | N/D | N/D | N/D |
| D8-THC | 0.1954 | N/D | N/D | N/D |
| THCV | 0.1954 | N/D | N/D | N/D |
| TOTAL D9-THC | | N/D | N/D | N/D |
| TOTAL CBD* | | 10.403% | 104.031 | 2,949.3 |
| TOTAL CANNABINOIDS | | 10.423% | 104.229 | 2,954.9 |

N/D

D9-THC

10.403%

Total CBD

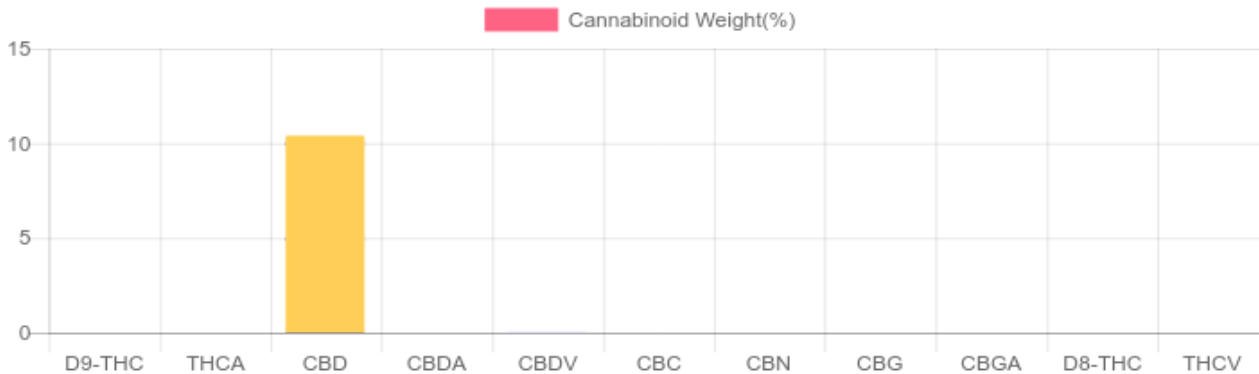
2,954.9 mg

Cannabinoids per unit


2,949.3 mg

CBD per unit

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



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


 Ben Witten, MS, MT., Lab Director

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 info@greenscientificlabs.com
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TERPENES: TOTAL (0.000%)

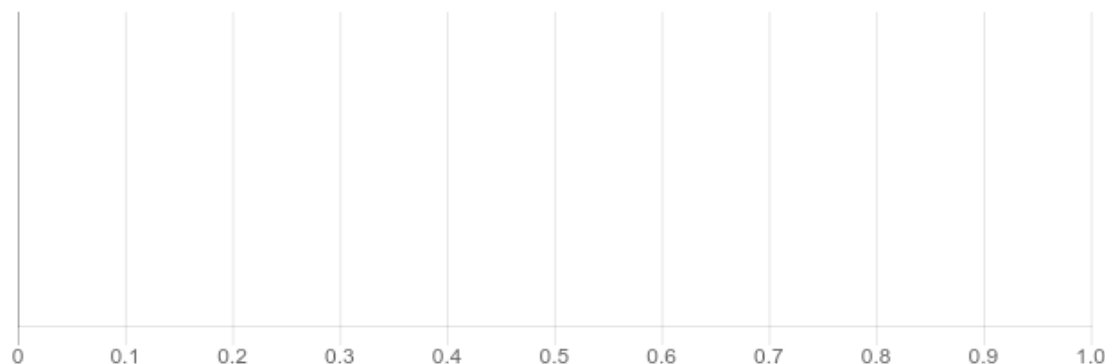
GC-FID

GSL SOP 404
 Prepared: 01/14/2021 19:20:53
 Uploaded: 01/15/2021 12:53:00

| Terpene | Results (%) | LOQ (%) | LOD (%) |
|---------------------|-------------|---------|---------|
| 3-CARENE | N/D | 0.003% | 0.001% |
| ALPHA-BISABOLOL | N/D | 0.003% | 0.001% |
| ALPHA-PINENE | N/D | 0.003% | 0.001% |
| ALPHA-TERPINENE | N/D | 0.003% | 0.001% |
| BETA-MYRCENE | N/D | 0.003% | 0.001% |
| BETA-PINENE | N/D | 0.003% | 0.001% |
| CAMPHENE | N/D | 0.003% | 0.001% |
| CARYOPHYLLENE | N/D | 0.003% | 0.001% |
| CARYOPHYLLENE OXIDE | N/D | 0.003% | 0.001% |
| CIS-BETA-OCIMENE | N/D | 0.003% | 0.001% |
| CIS-NEROLIDOL | N/D | 0.003% | 0.001% |
| EUCALYPTOL | N/D | 0.003% | 0.001% |
| GAMMA.-TERPINENE | N/D | 0.003% | 0.001% |
| GERANIOL | N/D | 0.003% | 0.001% |
| GUAIOL | N/D | 0.003% | 0.001% |
| HUMULENE | N/D | 0.003% | 0.001% |
| ISOPULEGOL | N/D | 0.003% | 0.001% |
| LIMONENE | N/D | 0.003% | 0.001% |
| LINALOOL | N/D | 0.003% | 0.001% |

| Terpene | Results (%) | LOQ (%) | LOD (%) |
|--------------------|-------------|---------|---------|
| P-CYMENE | N/D | 0.003% | 0.001% |
| TERPINOLENE | N/D | 0.003% | 0.001% |
| TRANS-BETA-OCIMENE | N/D | 0.003% | 0.001% |
| TRANS-NEROLIDOL | N/D | 0.003% | 0.001% |

Top Terpenes Results:



Ben Witten, MS, MT., Lab Director

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 info@greenscientificlabs.com
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PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 01/14/2021 18:18:06

UPLOADED: 01/15/2021 14:33:01

GC-MS/MS

| Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------|--------------------|---------------|-----------|-----------|
| CAPTAN | 3.000 | N/D | 0.100 | 0.100 |
| CHLORDANE | 0.100 | N/D | 0.010 | 0.010 |
| CHLORFENAPYR | 0.100 | N/D | 0.010 | 0.010 |
| COUMAPHOS | 0.100 | N/D | 0.010 | 0.010 |

| Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|-------------------------|--------------------|---------------|-----------|-----------|
| CYFLUTHRIN | 1.000 | N/D | 0.010 | 0.010 |
| CYPERMETHRIN | 1.000 | N/D | 0.010 | 0.010 |
| PENTACHLORONITROBENZENE | 0.200 | N/D | 0.010 | 0.010 |

LC-MS/MS

| Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|----------------------|--------------------|---------------|-----------|-----------|
| ABAMECTIN B1A | 0.300 | N/D | 0.005 | 0.005 |
| ACEPHATE | 3.000 | N/D | 0.005 | 0.001 |
| ACEQUINOCYL | 2.000 | N/D | 0.005 | 0.005 |
| ACETAMIPRID | 3.000 | N/D | 0.005 | 0.005 |
| ALDICARB | 0.100 | N/D | 0.005 | 0.005 |
| AZOXYSTROBIN | 3.000 | N/D | 0.005 | 0.001 |
| BIFENAZATE | 3.000 | N/D | 0.005 | 0.001 |
| BIFENTHRIN | 0.500 | N/D | 0.005 | 0.005 |
| BOSCALID | 3.000 | N/D | 0.005 | 0.005 |
| CARBARYL | 0.500 | N/D | 0.005 | 0.001 |
| CARBOFURAN | 0.100 | N/D | 0.005 | 0.001 |
| CHLORANTRANILIPROLE | 3.000 | N/D | 0.005 | 0.005 |
| CHLORMEQUAT CHLORIDE | 3.000 | N/D | 0.250 | 0.100 |
| CHLORPYRIFOS | 0.100 | N/D | 0.005 | 0.005 |
| CLOFENTEZINE | 0.500 | N/D | 0.005 | 0.005 |
| DAMINOZIDE | 0.100 | N/D | 0.005 | 0.001 |
| DIAZINON | 0.200 | N/D | 0.005 | 0.005 |
| DICHLORVOS | 0.100 | N/D | 0.005 | 0.001 |
| DIMETHOATE | 0.100 | N/D | 0.005 | 0.001 |
| DIMETHOMORPH | 3.000 | N/D | 0.005 | 0.001 |
| ETHOPROPHOS | 0.100 | N/D | 0.005 | 0.001 |
| ETOFENPROX | 0.100 | N/D | 0.005 | 0.005 |
| ETOXAZOLE | 1.500 | N/D | 0.050 | 0.005 |
| FENHEXAMID | 3.000 | N/D | 0.005 | 0.001 |
| FENOXYCARB | 0.100 | N/D | 0.005 | 0.005 |
| FENPYROXIMATE | 2.000 | N/D | 0.005 | 0.005 |
| FIPRONIL | 0.100 | N/D | 0.005 | 0.005 |
| FLONICAMID | 2.000 | N/D | 0.025 | 0.005 |
| FLUDIOXONIL | 3.000 | N/D | 0.005 | 0.005 |
| HEXYTHIAZOX | 2.000 | N/D | 0.005 | 0.005 |

| 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 | 0.005 | 0.005 |
| MALATHION | 2.000 | N/D | 0.005 | 0.001 |
| METALAXYL | 3.000 | N/D | 0.005 | 0.001 |
| METHIOCARB | 0.100 | N/D | 0.005 | 0.001 |
| METHOMYL | 0.100 | N/D | 0.005 | 0.001 |
| MEVINPHOS | 0.100 | N/D | 0.005 | 0.001 |
| MYCLOBUTANIL | 3.000 | N/D | 0.005 | 0.005 |
| NALED | 0.500 | N/D | 0.005 | 0.001 |
| OXAMYL | 0.500 | N/D | 0.005 | 0.001 |
| PACLOBUTRAZOL | 0.100 | N/D | 0.005 | 0.005 |
| PERMETHRINS | 1.000 | N/D | 0.005 | 0.005 |
| PHOSMET | 0.200 | N/D | 0.005 | 0.001 |
| PIPERONYL BUTOXIDE | 3.000 | N/D | 0.005 | 0.005 |
| PRALLETHRIN | 0.400 | N/D | 0.005 | 0.005 |
| PROPICONAZOLE | 1.000 | N/D | 0.010 | 0.005 |
| PROPOXUR | 0.100 | N/D | 0.005 | 0.001 |
| PYRETHRINS | 1.000 | N/D | 0.005 | 0.001 |
| PYRIDABEN | 3.000 | N/D | 0.005 | 0.005 |
| SPINETORAM | 3.000 | N/D | 0.005 | 0.005 |
| SPINOSAD | 3.000 | N/D | 0.005 | 0.005 |
| SPIROMESIFEN | 3.000 | N/D | 0.005 | 0.001 |
| SPIROTETRAMAT | 3.000 | N/D | 0.005 | 0.005 |
| SPIROXAMINE | 0.100 | N/D | 0.005 | 0.001 |
| TEBUCONAZOLE | 1.000 | N/D | 0.005 | 0.001 |
| THIACLOPRID | 0.100 | N/D | 0.005 | 0.001 |
| THIAMETHOXAM | 1.000 | N/D | 0.005 | 0.001 |
| TRIFLOXYSTROBIN | 3.000 | N/D | 0.005 | 0.005 |

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

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RESIDUAL SOLVENTS:

HS-GC-MS

GSL SOP 405

Prepared: 01/14/2021 20:20:10

Uploaded: 01/15/2021 15:47:28

| Residual Solvent | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|---------------------|--------------------|---------------|-----------|-----------|
| 1,1-DICHLOROETHENE | 8 | N/D | 0.63 | 0.6 |
| 1,2- DICHLOROETHANE | 2 | N/D | 0.12 | 0.012 |
| 1,2-DICHLOROETHENE | 5 | N/D | 0.73 | 0.09 |
| ACETONE | 5,000 | N/D | 140 | 9 |
| ACETONITRILE | 410 | N/D | 25 | 0.72 |
| BENZENE | 1 | N/D | 1 | 0.6 |
| BUTANE | 5,000 | N/D | 50 | 48 |
| CHLOROFORM | 1 | N/D | 1 | 0.5 |
| ETHANOL | 5,000 | N/D | 140 | 12 |
| ETHYL ACETATE | 5,000 | N/D | 140 | 2.4 |
| ETHYL ETHER | 5,000 | N/D | 140 | 6 |
| ETHYLENE OXIDE | 1 | N/D | 2 | 0.6 |
| ISOPROPYL ALCOHOL | 5,000 | N/D | 140 | 3 |
| METHANOL | 3,000 | N/D | 100 | 6 |
| METHYLENE CHLORIDE | 125 | N/D | 1.5 | 1.5 |
| N-HEPTANE | 5,000 | N/D | 140 | 6 |
| N-HEXANE | 290 | N/D | 18 | 0.06 |
| PENTANE | 5,000 | N/D | 140 | 9 |
| PROPANE | 5,000 | N/D | 30 | 30 |
| TOLUENE | 890 | N/D | 53 | 0.9 |
| TRICHLOROETHENE | 1 | N/D | 1 | 0.3 |
| XYLENES | 150 | N/D | 130 | 1.8 |

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Microbial Analysis:

Microbial Analysis GSL SOP 406

PCR - Agilent AriaMX

Uploaded: 01/19/2021 16:09:15

MICROBIAL ANALYSIS:

PCR - Agilent AriaMX

| Test | SOP | Test Method | Device Used | LOD | Allowable Criteria | Actual Result | Pass/Fail |
|----------------------|--------|-------------|-------------|------------------------|---------------------|---------------|-----------|
| TOTAL YEAST AND MOLD | 406.01 | USP 61/62† | ARIAMX PCR | CFU/G BY SAMPLE TYPE** | 1,000 CFU/G | NOT DETECTED | PASS |
| STEC E. COLI* | 406.01 | USP 61/62† | ARIAMX PCR | 1 CFU/G** | DETECT/NOT DETECTED | NOT DETECTED | PASS |
| PATHOGENIC 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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Completed: 02/24/2021



Mycotoxin Analysis:

LC-MS/MS
GSL SOP 401

Uploaded: 01/15/2021 12:40:11

| 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

Moisture Analysis:

Shimadzu MOC63U Moisture Balance - GSL SOP 411

Uploaded: 01/14/2021 16:16:01

Moisture %

1.6%

Heavy Metals Analysis:

ICP-MS
GSL SOP 403

Uploaded: 01/18/2021 19:11:36

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

Lower Limit of Quantitation (LOQ) is 75 ppb, Limit of Detection (LOD) is 3 ppb

Water Activity:

Water Activity Meter

Uploaded: 01/14/2021 16:16:01

Water

0.42

Filth and Foreign Materials Analysis:

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

Uploaded: 01/14/2021 16:21:43

Pass: No Foreign Materials Detected

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