

CERTIFICATE OF ANALYSIS



Order #: 30420
Order Name: Relief Roll-On gel
D4219
Batch#: D4219
Completed: 05/01/2019

Physicians Grade
3071 NW 107th Avenue
Doral FL, 33172
(800) 674-3469
support@physiciansgrade.com



Sample

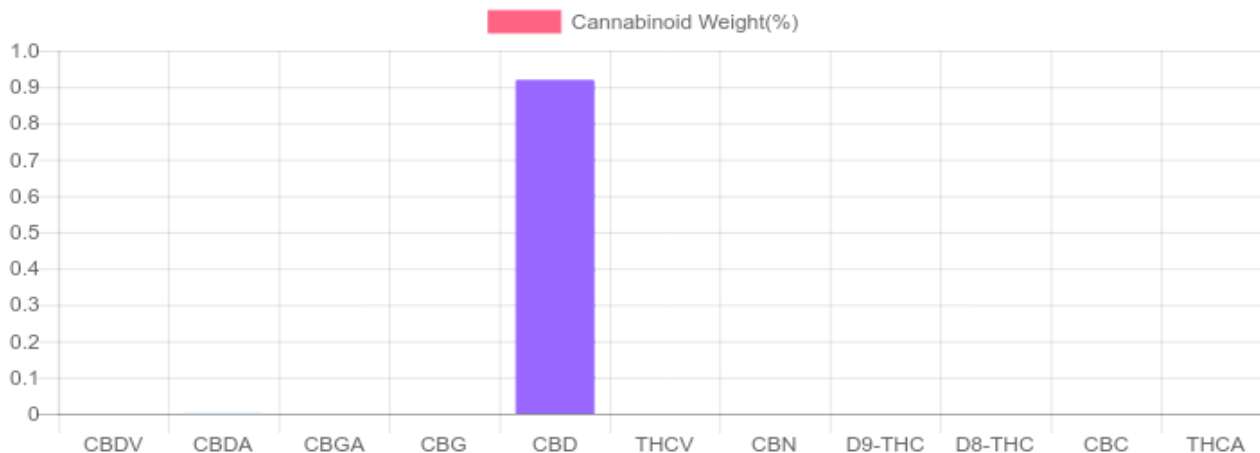


0.000%
D9-THC

0.921%
Total CBD

Cannabinoids Test

| cannabinoids | | weight(%) | mg/g |
|------------------------------|--------|-----------|-------|
| DELTA-9-TETRAHYDROCANNABINOL | D9-THC | N/D | N/D |
| TETRAHYDROCANNABINOLIC ACID | THCA | N/D | N/D |
| CANNABIDIOL | CBD | 0.919% | 9.195 |
| CANNABIDIOLIC ACID | CBDA | 0.001% | 0.015 |
| CANNABIDIVARIN | CBDV | N/D | N/D |
| CANNABICHROMENE | CBC | N/D | N/D |
| CANNABINOL | CBN | N/D | N/D |
| CANNABIGEROL | CBG | N/D | N/D |
| CANNABIGEROLIC ACID | CBGA | N/D | N/D |
| DELTA-8-TETRAHYDROCANNABINOL | D8-THC | N/D | N/D |
| TETRAHYDROCANNABIVARIN | THCV | N/D | N/D |
| TOTAL D9-THC | | N/D | N/D |
| TOTAL CBD* | | 0.921% | 9.208 |
| TOTAL CANNABINOIDS | | 0.921% | 9.210 |



*Total CBD = CBD + CBDA x 0.877

Notes

782.5mg CBD per container



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Dylan Swart, Lab Director

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TERPENES: TOTAL (1.414%)

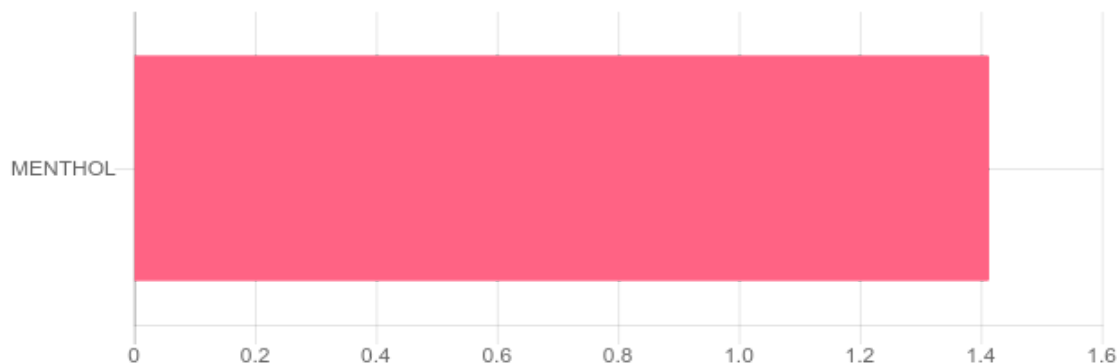
GC-Headspace - Shimadzu GCMS QP2020 with HS20

| Terpene | Results (%) |
|---------|-------------|
| MENTHOL | 1.414% |

Terpenes Breakdown



Top Terpenes Results:



Tested for but not present:

(1R)-ENDO-(+)-FENCHYL ALCOHOL, 3-CARENE, ALPHA-BISABOLOL, ALPHA-CEDRENE, ALPHA-PINENE, ALPHA-TERPINENE, ALPHA-PHELLANDRENE, BETA-MYRCENE, BETA-PINENE, BORNEOL (MIX OF ISOMERS), CAMPHENE, CAMPHOR, CAMPHOR (MIX OF ISOMERS), CARYOPHYLLENE, CARYOPHYLLENE OXIDE, CEDROL, CIS-BETA-OCIMENE, CIS-NEROLIDOL, EUCALYPTOL, FENCHONE, FENCHONE (ISOMER), GAMMA-TERPINEOL, GAMMA-TERPINENE, GERANIOL, GERANYL ACETATE, GUAJOL, HUMULENE, ISOBORNEOL, ISOPULEGOL, LIMONENE, LINALOOL, NEROL, PULEGONE, SABINENE, SABINENE HYDRATE, TERPINEOL (MIX OF ISOMERS), TERPINOLENE, TRANS-BETA-OCIMENE, TRANS-NEROLIDOL, VALENCENE



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PESTICIDE ANALYSIS:

GC QQQ - Shimadzu GCMS-TQ8040

| Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|---------------------|--------------------|---------------|-----------|-----------|
| ABAMECTIN B1A | 0.100 | N/D | 0.003 | 0.001 |
| ACEPHATE | 0.100 | N/D | 0.003 | 0.001 |
| ACEQUINOCYL | 0.100 | N/D | 0.003 | 0.001 |
| ACETAMIPRID | 0.100 | N/D | 0.003 | 0.001 |
| ALDICARB | 0.100 | N/D | 0.003 | 0.001 |
| AZOXYSTROBIN | 0.100 | N/D | 0.003 | 0.001 |
| BIFENAZATE | 0.100 | N/D | 0.003 | 0.001 |
| BIFENTHRIN | 3.000 | N/D | 0.003 | 0.001 |
| BOSCALID | 0.100 | N/D | 0.003 | 0.001 |
| CAPTAN | 0.700 | N/D | 0.003 | 0.001 |
| CARBARYL | 0.500 | N/D | 0.003 | 0.001 |
| CARBOFURAN | 0.100 | N/D | 0.003 | 0.001 |
| CHLORANTRANILIPROLE | 10.000 | N/D | 0.003 | 0.001 |
| CHLORDANE | 0.100 | N/D | 0.003 | 0.001 |
| CHLORFENAPYR | 0.100 | N/D | 0.003 | 0.001 |
| CHLORPYRIFOS | 0.100 | N/D | 0.003 | 0.001 |
| CLOFENTEZINE | 0.100 | N/D | 0.003 | 0.001 |
| COUMAPHOS | 0.100 | N/D | 0.003 | 0.001 |
| CYFLUTHRIN | 2.000 | N/D | 0.003 | 0.001 |
| CYPERMETHRIN | 1.000 | N/D | 0.003 | 0.001 |
| DAMINOZIDE | 0.100 | N/D | 0.003 | 0.001 |
| DIAZANON | 0.100 | N/D | 0.003 | 0.001 |
| DICHLORVOS | 0.100 | N/D | 0.003 | 0.001 |
| DIMETHOATE | 0.100 | N/D | 0.003 | 0.001 |
| DIMETHOMORPH | 2.000 | N/D | 0.003 | 0.001 |
| ETHOPROPHOS | 0.100 | N/D | 0.003 | 0.001 |
| ETOXAZOLE | 0.100 | N/D | 0.003 | 0.001 |
| FENHEXAMID | 0.100 | N/D | 0.003 | 0.001 |
| FENOXYCARB | 0.100 | N/D | 0.003 | 0.001 |
| FENPYROXIMATE | 0.100 | N/D | 0.003 | 0.001 |
| FIPRONIL | 0.100 | N/D | 0.003 | 0.001 |
| FLONICAMID | 0.100 | N/D | 0.003 | 0.001 |
| FLUDIOXONIL | 0.100 | N/D | 0.003 | 0.001 |

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

PESTICIDE ANALYSIS:


GC QQQ - Shimadzu LCMS-8060

| Pesticide | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|--------------------------|--------------------|---------------|-----------|-----------|
| HEXYTHIAZOX | 0.100 | N/D | 0.003 | 0.001 |
| IMAZALIL | 0.100 | N/D | 0.003 | 0.001 |
| IMIDACLOPRID | 5.000 | N/D | 0.003 | 0.001 |
| KRESOXIM-METHYL | 0.100 | N/D | 0.003 | 0.001 |
| MALATHION | 0.500 | N/D | 0.003 | 0.001 |
| METALAXYL | 2.000 | N/D | 0.003 | 0.001 |
| METHIOCARB | 0.100 | N/D | 0.003 | 0.001 |
| METHOMYL | 1.000 | N/D | 0.003 | 0.001 |
| MEVINPHOS | 0.100 | N/D | 0.003 | 0.001 |
| MYCLOBUTANIL | 0.100 | N/D | 0.003 | 0.001 |
| NALED | 0.100 | N/D | 0.003 | 0.001 |
| OXAMYL | 0.500 | N/D | 0.003 | 0.001 |
| PACLOBUTRAZOL | 0.100 | 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 |
| PERMETHRINS | 0.500 | N/D | 0.003 | 0.001 |
| PHOSMET | 0.100 | N/D | 0.003 | 0.001 |
| PIPERONYL BUTOXIDE | 3.000 | N/D | 0.003 | 0.001 |
| PRALLETHRIN | 0.100 | N/D | 0.003 | 0.001 |
| PROPICONAZOLE | 0.100 | N/D | 0.003 | 0.001 |
| PROPOXUR | 0.100 | N/D | 0.003 | 0.001 |
| PYRETHRINS (PYRETHRIN I) | 0.500 | N/D | 0.003 | 0.001 |
| PYRIDABEN | 0.100 | N/D | 0.003 | 0.001 |
| SPINETORAM | 0.100 | N/D | 0.003 | 0.001 |
| SPINOSAD (SPINOSYN A) | 0.100 | N/D | 0.003 | 0.001 |
| SPINOSAD (SPINOSYN D) | 0.100 | N/D | 0.003 | 0.001 |
| SPIROMESIFEN | 0.100 | N/D | 0.003 | 0.001 |
| SPIROTETRAMAT | 0.100 | N/D | 0.003 | 0.001 |
| SPIROXAMINE | 0.100 | N/D | 0.003 | 0.001 |
| TEBUCONAZOLE | 0.100 | N/D | 0.003 | 0.001 |
| THIACLOPRID | 0.100 | N/D | 0.003 | 0.001 |
| THIAMETHOXAM | 5.000 | N/D | 0.003 | 0.001 |
| TRIFLOXYSTROBIN | 0.100 | N/D | 0.003 | 0.001 |



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RESIDUAL SOLVENTS:


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| Residual Solvent | Action Level (ppm) | Results (ppm) |
|-------------------|--------------------|---------------|
| ACETONE | 5,000.000 | N/D |
| ACETONITRILE | 410.000 | N/D |
| BENZENE | 1.000 | N/D |
| BUTANE | 5,000.000 | N/D |
| CHLOROFORM | 1.000 | N/D |
| DICHLOROETHANE | 1.000 | N/D |
| DICHLOROMETHANE | 1.000 | N/D |
| ETHANOL | 5,000.000 | N/D |
| ETHYL ACETATE | 5,000.000 | N/D |
| ETHYL ETHER | 5,000.000 | N/D |
| ISOPROPYL ALCOHOL | 5,000.000 | N/D |
| METHANOL | 3,000.000 | N/D |
| N-HEPTANE | 5,000.000 | N/D |
| N-HEXANE | 290.000 | N/D |
| PENTANE | 5,000.000 | N/D |
| PROPANE | 5,000.000 | N/D |
| TOLUENE | 890.000 | N/D |
| TRICHLOROETHANE | 1.000 | N/D |
| XYLENES | 2,170.000 | N/D |



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Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060

| Analyte | Action Lvl (ppb) | Results (ppb) |
|--------------|------------------|---------------|
| AFLATOXIN B1 | 20.000 | N/D |
| AFLATOXIN B2 | 20.000 | N/D |
| AFLATOXIN G1 | 20.000 | N/D |
| AFLATOXIN G2 | 20.000 | N/D |
| OCHRATOXIN A | 20.000 | N/D |

Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030

| Metal | Action Level (ppb) | Result (ppb) |
|--------------|--------------------|--------------|
| ARSENIC (AS) | 200.000 | < LOQ |
| CADMIUM (CD) | 200.000 | < LOQ |
| MERCURY (HG) | 100.000 | 3.270 |
| LEAD (PB) | 500.000 | < LOQ |

*Lower Limit of Quantitation (LOQ) is 1 ppb

Microbial Analysis:

PCR - Agilent AriaMX

| Test | Test Method Used | Device Used | LOD | Allowable Amount | Actual Result | Pass/Fail |
|------------------------|------------------|-------------|-------------------|-------------------|-----------------|-----------|
| STEC E. COLI* | USP 61/62† | ARIAMX PCR | 2 COPIES OF DNA | PRESENCE / ABSENT | BELOW LOD | PASS |
| SALMONELLA* | USP 61/62† | ARIAMX PCR | 5 COPIES OF DNA | PRESENCE / ABSENT | BELOW LOD | PASS |
| ASPERGILLUS | USP 61/62† | ARIAMX PCR | ASP_LOD*** | PRESENCE / ABSENT | BELOW LOD | PASS |
| YEAST AND MOLD | USP 61/62† | ARIAMX PCR | 363.05518 CFU/G** | 1,000 | BELOW THRESHOLD | PASS |
| TOTAL AEROBIC BACTERIA | USP 61/62† | ARIAMX PCR | 0.25316 CFU/G** | 10,000 | BELOW THRESHOLD | PASS |
| COLIFORM | USP 61/62† | ARIAMX PCR | 3.41539 CFU/G** | 100 | BELOW THRESHOLD | PASS |
| ENTEROBACTERIACEAE | USP 61/62† | ARIAMX PCR | 0.32951 CFU/G** | 100 | BELOW THRESHOLD | 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 Select Category Type Gummy MIP/Extract Flower matrix

*** Flavus = 2 Copies of DNA / Fumigatis = 2 Copies of DNA Niger = 20 Copies of DNA / Terrus = 10 copies of DNA

Filth and Foreign Materials Analysis:

Microscope - Amscope Simul-Focal Trinocular Stereo Zoom Microscope

No foreign materials detected.



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