

# CERTIFICATE OF ANALYSIS

## ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 68876  
 Order Name: Botanika Life  
 Ultra Relief Pain Rub Full  
 Spectrum 1500  
 Batch#: 01056  
 Received: 12/29/2020  
 Completed: 01/04/2021

Botanika Life Inc.  
 846 Lincoln Road, 6th Floor  
 Miami FL, 33139  
 (866) 268-2645



### Sample



**0.094%**  
D9-THC

**2.635%**  
Total CBD

**1,384.7 mg**  
Cannabinoids per  
unit

**1,317.7 mg**  
CBD per  
unit

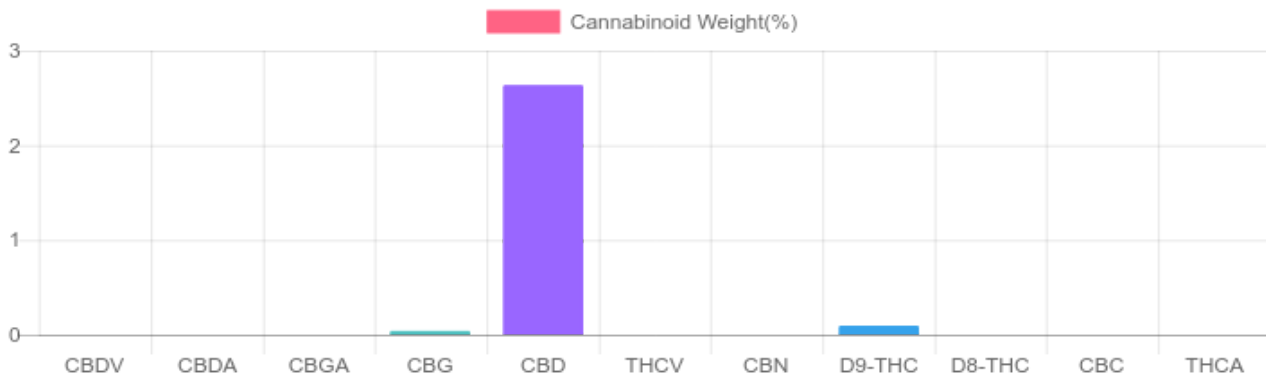
1 unit = 50 ml per unit x density (1) x  
Cannabinoid concentration

### Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA  
 GSL SOP 400

UPLOADED: 12/30/2020 17:22:12

| Cannabinoids       | LOQ    | weight(%) | mg/g   | mg/unit |
|--------------------|--------|-----------|--------|---------|
| D9-THC             | 10 PPM | 0.094%    | 0.937  | 46.9    |
| THCA               | 10 PPM | N/D       | N/D    | N/D     |
| CBD                | 10 PPM | 2.635%    | 26.354 | 1,317.7 |
| 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 | 0.040%    | 0.402  | 20.1    |
| 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       |        | 0.094%    | 0.094% | 46.9    |
| TOTAL CBD*         |        | 2.635%    | 26.354 | 1,317.7 |
| TOTAL CANNABINOIDS |        | 2.769%    | 27.693 | 1,384.7 |



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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### TERPENES: TOTAL (0.002%)

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 404

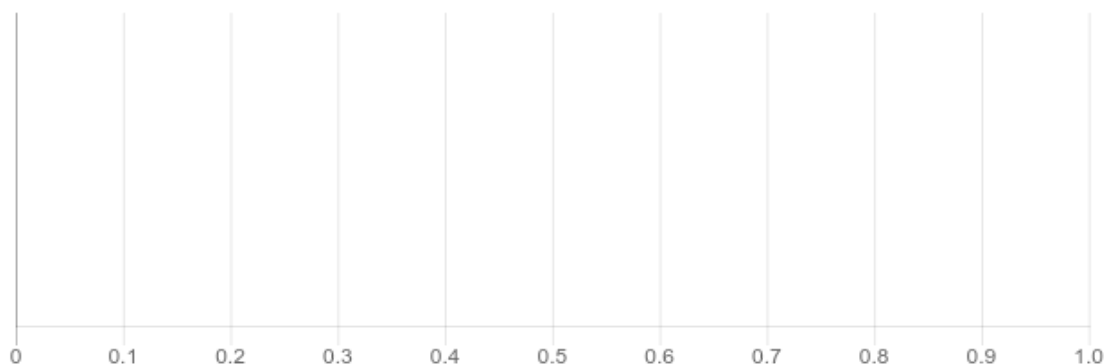
Prepared: 12/29/2020 20:08:37

Uploaded: 12/30/2020 10:27:20

| Terpene  | Results (%) | LOQ (%) | LOD (%) |
|----------|-------------|---------|---------|
| LIMONENE | B/LOQ       | 0.0067% | 0.0063% |

### Terpenes Breakdown

### Top Terpenes Results:



### Tested for but not present:

ALPHA-PINENE, CAMPHENE, BETA-MYRCENE, BETA-PINENE, 3-CARENE, ALPHA-TERPINENE, TRANS-BETA-OCIMENE, P-CYMENE, CIS-BETA-OCIMENE, EUCALYPTOL, GAMMA-TERPINENE, TERPINOLENE, LINALOOL, ISOPULEGOL, GERANIOL, CARYOPHYLLENE, HUMULENE, CIS-NEROLIDOL, TRANS-NEROLIDOL, GUAJOL, CARYOPHYLLENE OXIDE, ALPHA-BISABOLOL

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### PESTICIDE ANALYSIS:

GSL SOP 401

PREPARED: 12/29/2020 20:06:10

UPLOADED: 12/30/2020 16:32:45

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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### RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

Prepared: 12/29/2020 20:26:25

Uploaded: 12/30/2020 13:09:51

| 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

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### 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

\*\*\* Fluvus = 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

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| 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

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#### Moisture %

3.0%

### Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030  
GSL SOP 403

Uploaded: 01/11/2021 18:21:27

| 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: 01/11/2021 18:21:27

#### Water

0.66

### Filth and Foreign Materials Analysis:

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

Uploaded: 01/11/2021 18:21:27

Pass: No Foreign Materials Detected

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