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

**Order #:** 50720
**Order Name:**
031020FLWRCBG
**Batch#:** 031020FLWRCBG
**Received:** 03/13/2020
**Completed:** 05/20/2020

**SunFlora Inc.**

## Sample

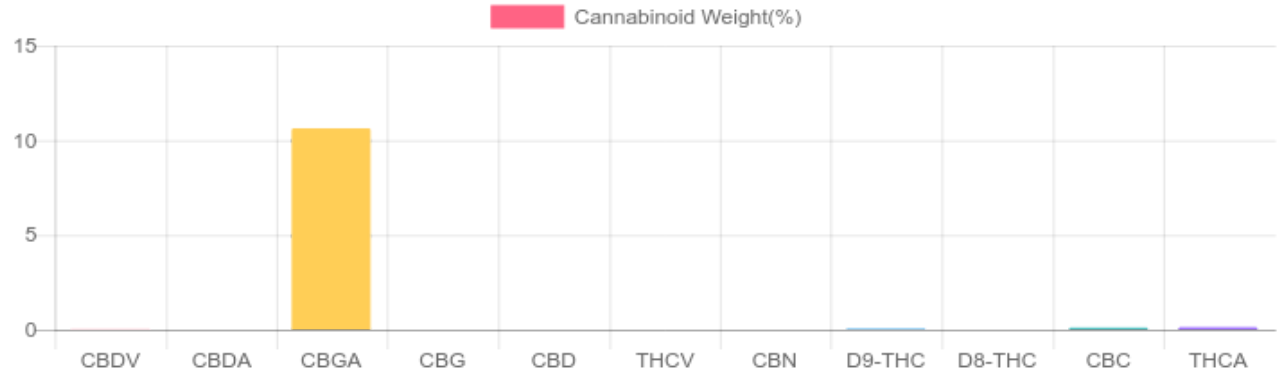


| 0.040% | N/D |
|---|---|
| D9-THC | Total CBD |

## Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
GSL SOP 400 **PREPARED:** 03/13/2020 16:23:34

| Cannabinoids | LOQ | weight(%) | mg/g |
|---|---|---|---|
| D9-THC | 10 PPM | **0.040**% | **0.399** |
| THCA | 10 PPM | **0.129**% | **1.290** |
| CBD | 10 PPM | N/D | N/D |
| CBDA | 20 PPM | N/D | N/D |
| CBDV | 20 PPM | **0.019**% | **0.192** |
| CBC | 10 PPM | **0.110**% | **1.101** |
| CBN | 10 PPM | N/D | N/D |
| CBG | 10 PPM | N/D | N/D |
| CBGA | 20 PPM | **10.623**% | **106.225** |
| D8-THC | 10 PPM | N/D | N/D |
| THCV | 10 PPM | N/D | N/D |
| TOTAL D9-THC | | **0.040%** | **0.040%** |
| TOTAL CBD* | | **N/D** | **N/D** |
| TOTAL CANNABINOIDS | | **10.921%** | **109.207** |




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

**Green Scientific Labs**
info@greenscientificlabs.com
1-833 TEST CBD

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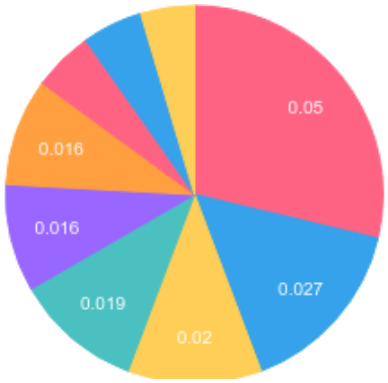
## TERPENES: TOTAL (0.183%)

GSL SOP 404
**Prepared:** 03/13/2020 16:35:30

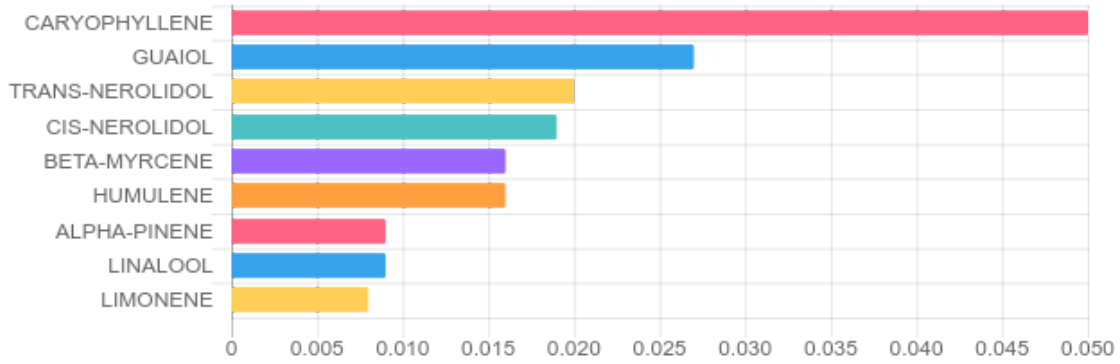
Headspace GCMS - Shimadzu GCMS QP2020 with HS20

| Terpene | Results (%) | LOQ (%) | LOD (%) |
|---|---|---|---|
| ALPHA-PINENE | 0.009% | 0.0067% | 0.0063% |
| BETA-MYRCENE | 0.016% | 0.0067% | 0.0063% |
| BETA-PINENE | B/LOQ | 0.0067% | 0.0063% |
| CARYOPHYLLENE | 0.050% | 0.0067% | 0.0063% |
| CIS-BETA-OCIMENE | B/LOQ | 0.0067% | 0.0031% |
| CIS-NEROLIDOL | 0.019% | 0.0067% | 0.0063% |
| GUAIOL | 0.027% | 0.0067% | 0.0063% |
| HUMULENE | 0.016% | 0.0067% | 0.0063% |
| LIMONENE | 0.008% | 0.0067% | 0.0063% |
| LINALOOL | 0.009% | 0.0067% | 0.0063% |
| TRANS-NEROLIDOL | 0.020% | 0.0067% | 0.0063% |

### Terpenes Breakdown




### Top Terpenes Results:




**Tested for but not present:**

CAMPHENE, 3-CARENE, ALPHA-TERPINENE, TRANS-BETA-OCIMENE, P-CYMENE, EUCALYPTOL, GAMMA.-TERPINENE, TERPINOLENE, ISOPULEGOL, GERANIOL, CARYOPHYLLENE OXIDE, ALPHA-BISABOLOL

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:** 03/13/2020 16:42:07

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 |
| 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 |
| 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 (SPINOSYN A) | 3.000 | N/D | 0.001 | 0.001 |
| SPINOSAD (SPINOSYN D) | 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

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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## RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405
**Prepared:** 03/13/2020 16:42:13

| Residual Solvent | Action Level (ppm) | Results (ppm) | LOQ (ppm) | LOD (ppm) |
|---|---|---|---|---|
| ACETONE | 5,000 | B/LOQ | 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 |
| DICHLOROETHANE | 1 | N/D | 1 | 0.5 |
| DICHLOROMETHANE | 1 | N/D | 1 | 0.5 |
| ETHANOL | 5,000 | N/D | 140 | 20 |
| ETHYL ACETATE | 5,000 | N/D | 140 | 20 |
| ETHYL ETHER | 5,000 | N/D | 140 | 20 |
| ISOPROPYL ALCOHOL | 5,000 | N/D | 140 | 20 |
| METHANOL | 3,000 | 172 | 100 | 20 |
| N-HEPTANE | 5,000 | N/D | 140 | 20 |
| N-HEXANE | 290 | B/LOQ | 18 | 10 |
| PENTANE | 5,000 | N/D | 140 | 20 |
| PROPANE | 5,000 | N/D | 20 | 1 |
| TOLUENE | 890 | N/D | 53 | 1 |
| TRICHLOROETHENE | 1 | N/D | 1 | 0.5 |
| XYLENES | 150 | N/D | 130 | 20 |

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PJLA Testing Accreditation #103104

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## Microbial Analysis:

**Microbial Analysis** GSL SOP 406

**Uploaded:** 03/30/2020 12:24:15

PCR - Agilent AriaMX

| Test | Test Method Used | Device Used | LOD | Allowable Criteria | Actual Result | Pass/Fail |
|---|---|---|---|---|---|---|
| YEAST AND MOLD | USP 61/62† | ARIAMX PCR | 0.0857 CFU/G** | 10,000 | BELOW THRESHOLD | PASS |
| PATHOGENIC E.COLI* | USP 61/62† | ARIAMX PCR | 2 COPIES OF DNA | PRESENCE / ABSENT | BELOW LOD | PASS |
| 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 |
| LISTERIA MONOCYTOGENES | | ARIAMX PCR | 2 COPIES OF DNA | PRESENCE / ABSENT | BELOW LOD | 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

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## Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060
GSL SOP 401

**Uploaded:** 03/16/2020 12:06:58

| 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 4ppb, LOD is 1ppb

## Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030
GSL SOP 403

**Uploaded:** 03/16/2020 15:27:06

| Metal | Action Level (ppb) | Result (ppb) |
|---|---|---|
| ARSENIC (AS) | 200 | B/LOQ |
| CADMIUM (CD) | 200 | 122 |
| MERCURY (HG) | 100 | B/LOQ |
| LEAD (PB) | 500 | B/LOQ |

Lower Limit of Quantitation (LOQ) is 75 ppb

## Moisture Analysis:

Shimadzu MOC63U Moisture Balance - GSL SOP 411

**Uploaded:** 03/16/2020 11:54:49

| Moisture % |
|---|
| 11.5% |

## Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

**Uploaded:** 03/16/2020 12:14:19

| Water |
|---|
| 0.56 |

## Filth and Foreign Materials Analysis:

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

**Uploaded:** 03/16/2020 13:16:16

Pass: No Foreign Materials Detected

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