



Certificate of Analysis

Dec 31, 2019 | CURALEAF FLORIDA LLC

19000 SW 192 STREET
MIAMI, FL, 33187, US



Sample: DA91220008-007
Harvest/Lot ID: HS-TVF1219201902
Cultivation Facility: Miami Cultivation
Processing Facility: Homestead Processing
Seed to Sale #0406 5571 9611 9067
Batch Date : N/A
Batch#: HS-TVF1219201902
Sample Size Received: 7.00 gram
Total Weight/Volume: 2000 gram
Retail Product Size: 0.5 gram gram
Ordered : 12/20/19
sampled : 12/20/19
Completed: 12/31/19
Sampling Method: SOP Client Method

PASSED

Page 1 of 5

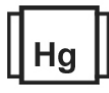
PRODUCT IMAGE



SAFETY RESULTS



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals
Solvents
PASSED



Filtration
PASSED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
TESTED

MISC.

CANNABINOID RESULTS



Total THC

84.195%

THC/Container : 421.82 mg



Total CBD

0.199%

CBD/Container : 0.31 mg



Total Cannabinoids

88.676%

Total Cannabinoids / Container
: 0.000

| | TOTAL CA | TOTAL CB | TOTAL TH | CBC | CBGA | CBG | THCV | DB-THC | CBDV | CBN | CBDA | CBD | THCA | D9-THC |
|------|----------|----------|----------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|----------|
| % | 88.6760 | 0.1990 | 84.1949 | 0.9070 | ND | 2.6240 | 0.3980 | 0.1400 | ND | 0.1640 | 0.0709 | 0.1370 | 0.3320 | 83.9040 |
| mg/g | 886.7600 | 1.9900 | 841.9490 | 9.0700 | ND | 26.2400 | 3.9800 | 1.4000 | ND | 1.6400 | 0.7100 | 1.3700 | 3.3200 | 839.0400 |
| LOD | 0.0000 | 0.0010 | 0.0010 | 0.0010 | 0.0010 | 0.0010 | 0.0010 | 0.0010 | 0.0010 | 0.0010 | 0.0010 | 0.0001 | 0.0010 | 0.0001 |
| % | % | % | % | % | % | % | % | % | % | % | % | % | % | % |

| Filtration | PASSED |
|------------|--------|
|------------|--------|

| Analyzed By | Weight | Extraction date | Extracted By |
|---------------------------------|--------|-----------------|--------------|
| 584 | 1g | 12/20/19 | 584 |
| Analyte | LOD | Result | Batch Date : |
| Filtration and Foreign Material | 0 | ND | |
| Analysis Method -SOP.T.40.013 | | | |
| Analytical Batch -DA008892FIL | | | |
| Instrument Used : | | | |

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is used for inspection.

Cannabinoid Profile Test

| Analyzed by | Weight | Extraction date : | Extracted By : |
|-------------------------------|-------------------|-------------------|----------------|
| 1224 | 0.1127g | NA | NA |
| Analysis Method | Instrument Used : | Batch Date : | |
| -SOP.T.40.020, SOP.T.30.050 | | | |
| Analytical Batch -DA008913POT | | | |
| Reagent | Dilution | Consums. ID | |
| 122019.R05 | | 76124-662 | |
| 122019.R03 | | SFN-BX-1025 | |
| 122019.R02 | | 849C4-849AK | |
| | | 840C6-840H | |

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L).

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Jorge Segredo
Lab Director

State License # CMTL-0002
ISO Accreditation # ISO/IEC
17025:2017 Accreditation
PJLA-Testing 97164


Signature

12/31/19

Signed On



Certificate of Analysis

PASSED

 19000 SW 192 STREET
 MIAMI, FL, 33187, US
Telephone: 7865860672
Email: erick.ramirez@curaleaf.com

Sample : DA91220008-007
Harvest/LOT ID: HS-TVF1219201902

Batch# : HS-TVF1219201902
Sampled : 12/20/19
Ordered : 12/20/19

Sample Size Received : 7.00 gram
Total Weight/Volume : 2000 gram
Completed : 12/31/19 **Expires:** 12/31/20
Sample Method : SOP Client Method

Page 2 of 5



Terpenes

TESTED

| Terpenes | LOD(%) | mg/g | % | Result (%) | Terpenes | LOD(%) | mg/g | % | Result (%) |
|---------------------|--------|--------|---------|------------|--------------------|--------|--------|-------|------------|
| ALPHA-CEDRENE | 0.007 | ND | ND | | SABINENE | 0.007 | ND | ND | |
| ALPHA-HUMULENE | 0.007 | 1.680 | 0.168 | | SABINENE HYDRATE | 0.007 | ND | ND | |
| ALPHA-PINENE | 0.007 | 4.291 | 0.429 | | TERPINEOL | 0.007 | ND | ND | |
| ALPHA-TERPINENE | 0.007 | ND | ND | | TERPINOLENE | 0.007 | 10.372 | 1.037 | |
| BETA-MYRCENE | 0.007 | 19.838 | 1.983 | | BETA-CARYOPHYLLENE | 0.007 | 5.024 | 0.502 | |
| BETA-PINENE | 0.007 | 3.015 | 0.301 | | TRANS-NEROLIDOL | 0.007 | 0.252 | 0.025 | |
| BORNEOL | 0.013 | ND | ND | | VALENCENE | 0.007 | ND | ND | |
| CAMPHENE | 0.007 | ND | ND | | | | | | |
| CAMPHOR | 0.013 | ND | ND | | | | | | |
| CARYOPHYLLENE OXIDE | 0.007 | < 0.2 | < 0.020 | | | | | | |
| CEDROL | 0.007 | ND | ND | | | | | | |
| ALPHA-BISABOOL | 0.007 | 2.036 | 0.203 | | | | | | |
| ISOPULEGOL | 0.007 | ND | ND | | | | | | |
| CIS-NEROLIDOL | 0.007 | ND | ND | | | | | | |
| 3-CARENE | 0.007 | ND | ND | | | | | | |
| FENCHYL ALCOHOL | 0.007 | ND | ND | | | | | | |
| HEXAHYDROTHYMOL | 0.007 | ND | ND | | | | | | |
| EUCALYPTOL | 0.007 | ND | ND | | | | | | |
| ISOBORNEOL | 0.007 | ND | ND | | | | | | |
| FARNESENE | 0.007 | 0.304 | 0.030 | | | | | | |
| FENCHONE | 0.007 | ND | ND | | | | | | |
| GAMMA-TERPINENE | 0.007 | ND | ND | | | | | | |
| GERANIOL | 0.007 | ND | ND | | | | | | |
| GERANYL ACETATE | 0.007 | ND | ND | | | | | | |
| GUAJOL | 0.007 | ND | ND | | | | | | |
| LIMONENE | 0.007 | 11.146 | 1.114 | | | | | | |
| LINALOOL | 0.007 | ND | ND | | | | | | |
| NEROL | 0.007 | ND | ND | | | | | | |
| OCIMENE | 0.007 | ND | ND | | | | | | |
| ALPHA-PHELLANDRENE | 0.007 | ND | ND | | | | | | |
| PULEGONE | 0.007 | ND | ND | | | | | | |
| Total (%) | | 5.796 | | | | | | | |



Terpenes

TESTED
Analyzed by 1118 **Weight** 1.1123g **Extraction date** 12/20/19 11:12:44 **Extracted By** 1118

Analysis Method -SOP.T.40.090
Analytical Batch -DA008881TER
Instrument Used :
Running On :
Batch Date :

| Reagent | Dilution | Consums. ID |
|-----------|----------|------------------------|
| 020519.17 | 10 | 76124-662 280630187 |

Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography - Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.091 Terpenoid Analysis Via GC/MS.



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Harvest/LOT ID: HS-TVF1219201902

Batch# : HS-TVF1219201902
Sampled : 12/20/19
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Sample Size Received : 7.00 gram
Total Weight/Volume : 2000 gram
Completed : 12/31/19 **Expires:** 12/31/20
Sample Method : SOP Client Method

Page 3 of 5



Pesticides

PASSED

| Pesticides | LOD | Units | Action Level | Result | Pesticides | LOD | Units | Action Level | Result |
|---------------------|-------|-------|--------------|--------|-----------------------|------|-------|--------------|--------|
| CHLORDANE | 0.005 | ppm | 0.1 | ND | OXAMYL | 0.01 | ppm | 0.5 | ND |
| CAPTAN | 0.05 | ppm | 0.7 | ND | PACLOBUTRAZOL | 0.01 | ppm | 0.1 | ND |
| BOSCALID | 0.01 | PPM | 0.1 | ND | TRANS-PERMETHRIN | 0.05 | ppm | 0.1 | ND |
| DIMETHOATE | 0.01 | ppm | 0.1 | ND | PHOSMET | 0.01 | ppm | 0.1 | ND |
| ABAMECTIN B1A | 0.02 | ppm | 0.1 | ND | PIPERONYL BUTOXIDE | 0.01 | ppm | 3 | ND |
| CIS-PERMETHRIN | 0.05 | ppm | 0.1 | ND | PRALLETHRIN | 0.05 | ppm | 0.1 | ND |
| SPINETORAM | 0.01 | PPM | 0.2 | ND | PROPICONAZOLE | 0.01 | ppm | 0.1 | ND |
| ACEPHATE | 0.001 | ppm | 0.1 | ND | PROPOXUR | 0.01 | ppm | 0.1 | ND |
| DIMETHOMORPH | 0.005 | ppm | 0.2 | ND | PYRETHRIN I | 0.01 | ppm | 0.5 | ND |
| ETHOPROPHOS | 0.01 | ppm | 0.1 | ND | PYRIDABEN | 0.01 | ppm | 0.2 | ND |
| ACEQUINOCYL | 0.01 | ppm | 0.1 | ND | SPINOSAD (SPINOSYN A) | 0.01 | ppm | 0.1 | ND |
| ACETAMIPRID | 0.01 | ppm | 0.1 | ND | SPINOSAD (SPINOSYN D) | 0.01 | ppm | 0.1 | ND |
| ETOFENPROX | 0.01 | ppm | 0.1 | ND | SPIROMESIFEN | 0.01 | ppm | 0.1 | ND |
| ALDICARB | 0.02 | ppm | 0.1 | ND | SPIROTETRAMAT | 0.02 | ppm | 0.1 | ND |
| ETOXAZOLE | 0.01 | ppm | 0.1 | ND | SPIROXAMINE | 0.01 | ppm | 0.1 | ND |
| AZOXYSTROBIN | 0.01 | ppm | 0.01 | ND | TEBUCONAZOLE | 0.01 | ppm | 0.1 | ND |
| FENHEXAMID | 0.01 | ppm | 0.1 | ND | THIACLOPRID | 0.01 | ppm | 0.1 | ND |
| BIFENAZATE | 0.01 | ppm | 0.1 | ND | THIAMETHOXAM | 0.01 | ppm | 0.5 | ND |
| FENOXYCARB | 0.01 | ppm | 0.1 | ND | TRIFLOXYSTROBIN | 0.01 | ppm | 0.1 | ND |
| FENPYROXIMATE | 0.01 | ppm | 0.1 | ND | | | | | |
| BIFENTHRIN | 0.01 | ppm | 0.1 | ND | | | | | |
| CARBARYL | 0.01 | ppm | 0.5 | ND | | | | | |
| FIPRONIL | 0.02 | ppm | 0.1 | ND | | | | | |
| FLONICAMID | 0.01 | ppm | 0.1 | ND | | | | | |
| CARBOFURAN | 0.01 | ppm | 0.1 | ND | | | | | |
| CHLORANTRANILIPROLE | 0.01 | ppm | 1 | ND | | | | | |
| FLUDIOXONIL | 0.01 | ppm | 0.1 | ND | | | | | |
| HEXYTHIAZOX | 0.01 | ppm | 0.1 | ND | | | | | |
| CHLORFENAPYR | 0.01 | ppm | 0.1 | ND | | | | | |
| IMAZALIL | 0.01 | ppm | 0.1 | ND | | | | | |
| CHLORPYRIFOS | 0.01 | ppm | 0.1 | ND | | | | | |
| IMIDACLOPRID | 0.01 | ppm | 0.4 | ND | | | | | |
| CLOFENTEZINE | 0.01 | ppm | 0.2 | ND | | | | | |
| KRESOXIM-METHYL | 0.01 | ppm | 0.1 | ND | | | | | |
| COUMAPHOS | 0.005 | ppm | 0.1 | ND | | | | | |
| MALATHION | 0.01 | ppm | 0.2 | ND | | | | | |
| CYPERMETHRIN | 0.01 | ppm | 0.5 | ND | | | | | |
| DAMINOZIDE | 0.02 | ppm | 0.1 | ND | | | | | |
| METALAXYL | 0.01 | ppm | 0.02 | ND | | | | | |
| DICHLORVOS | 0.05 | ppm | 0.1 | ND | | | | | |
| METHIOCARB | 0.01 | ppm | 0.05 | ND | | | | | |
| METHOMYL | 0.01 | ppm | 0.1 | ND | | | | | |
| DIAZANON | 0.01 | ppm | 0.1 | ND | | | | | |
| MEVINPHOS | 0.01 | ppm | 0.1 | ND | | | | | |
| MYCLOBUTANIL | 0.01 | ppm | 0.1 | ND | | | | | |
| NALED | 0.01 | ppm | 0.25 | ND | | | | | |



Pesticides

PASSED
Analyzed by 585 **Weight** 1.0502g **Extraction date** 12/20/19 03:12:52 **Extracted By** 1082

Analysis Method - SOP.T.30.065, SOP.T.40.065, SOP.T.40.066, SOP.T.40.070, SOP.T.30.065, SOP.T.40.070

Analytical Batch - DA008898PES

Instrument Used :

Running On :

Batch Date :

| Reagent | Dilution | Consums. ID |
|---|----------|-------------|
| Pesticide screen is performed using LC-MS and/or GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 67 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and GCMSMS. SOP.T40.065/SOP.T.40.066/SOP.T.40.070 Procedure for Pesticide Quantification Using LCMS and GCMS). * Volatile Pesticide screening is performed using GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Analytes marked with an asterisk were tested using GC-MS. | | |

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Jorge Segredo
 Lab Director

 State License # CMTL-0002
 ISO Accreditation # ISO/IEC
 17025:2017 Accreditation
 PJLA-Testing 97164

Signature

12/31/19

Signed On



Certificate of Analysis

PASSED

 19000 SW 192 STREET
 MIAMI, FL, 33187, US
Telephone: 7865860672
Email: erick.ramirez@curaleaf.com

Sample : DA91220008-007
Harvest/LOT ID: HS-TVF1219201902

Batch# : HS-TVF1219201902
Sampled : 12/20/19
Ordered : 12/20/19

Sample Size Received : 7.00 gram
Total Weight/Volume : 2000 gram
Completed : 12/31/19 **Expires:** 12/31/20
Sample Method : SOP Client Method

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| | | |
|--|--------------------------|---------------|
|  | Residual Solvents | PASSED |
|--|--------------------------|---------------|

| | | |
|---|--------------------------|---------------|
|  | Residual Solvents | PASSED |
|---|--------------------------|---------------|

| Solvent | LOD | Units | Action Level (PPM) | Pass/Fail | Result |
|----------------------|-------|-------|--------------------|-----------|----------|
| PROPANE | 120 | ppm | 2100 | PASS | ND |
| BUTANES (N-BUTANE) | 96 | ppm | 2000 | PASS | ND |
| ETHYLENE OXIDE | 0.6 | ppm | 5 | PASS | ND |
| METHANOL | 22.5 | ppm | 250 | PASS | ND |
| ETHANOL | 90 | ppm | 5000 | PASS | ND |
| PENTANES (N-PENTANE) | 67.5 | ppm | 750 | PASS | ND |
| ETHYL ETHER | 45 | ppm | 500 | PASS | ND |
| ACETONE | 67.5 | ppm | 750 | PASS | <140.000 |
| 2-PROPANOL | 45 | ppm | 500 | PASS | ND |
| ACETONITRILE | 5.4 | ppm | 60 | PASS | <24.600 |
| DICHLOROMETHANE | 11.25 | ppm | 125 | PASS | ND |
| N-HEXANE | 4.5 | ppm | 250 | PASS | <17.400 |
| ETHYL ACETATE | 36 | ppm | 400 | PASS | ND |
| BENZENE | 0.09 | ppm | 1 | PASS | ND |
| HEPTANE | 45 | ppm | 500 | PASS | ND |
| TOLUENE | 13.5 | ppm | 150 | PASS | ND |
| CHLOROFORM | 0.18 | ppm | 2 | PASS | ND |
| 1,2-DICHLOROETHANE | 0.18 | ppm | 2 | PASS | ND |
| TRICHLOROETHYLENE | 2.25 | ppm | 25 | PASS | ND |
| 1,1-DICHLOROETHENE | 1 | ppm | 8 | PASS | ND |
| TOTAL XYLENES | 13.5 | ppm | 150 | PASS | ND |

| | | | |
|---------------------------|--------------------------|---|----------------------------|
| Analyzed by 850 | Weight 0.0235g | Extraction date 12/20/19 04:12:07 | Extracted By 850 |
|---------------------------|--------------------------|---|----------------------------|

Analysis Method -SOP.T.40.032
Analytical Batch -DA008910SOL
Instrument Used :
Running On :
Batch Date :

| Reagent | Dilution | Consums. ID |
|---------|----------|----------------------------------|
| | 1 | 00276446 161040-1 24152436 |

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 21 Residual solvents.(Method: SOP.T.40.032 Residual Solvents Analysis via GC-MS).



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 MIAMI, FL, 33187, US
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Sample : DA91220008-007
Harvest/LOT ID: HS-TVF1219201902

Batch# : HS-TVF1219201902
Sampled : 12/20/19
Ordered : 12/20/19

Sample Size Received : 7.00 gram
Total Weight/Volume : 2000 gram
Completed : 12/31/19 **Expires:** 12/31/20
Sample Method : SOP Client Method

Page 5 of 5

| | | |
|--|-------------------|---------------|
|  | Microbials | PASSED |
|--|-------------------|---------------|

| Analyte | LOD | Result | Action Level (cfu/g) |
|-------------------------------|-----|------------------------|----------------------|
| ASPERGILLUS_FLAVUS | | not present in 1 gram. | |
| ASPERGILLUS_FUMIGATUS | | not present in 1 gram. | |
| ASPERGILLUS_NIGER | | not present in 1 gram. | |
| ASPERGILLUS_TERREUS | | not present in 1 gram. | |
| ESCHERICHIA_COLI_SHIGELLA_SPP | | not present in 1 gram. | |
| SALMONELLA_SPECIFIC_GENE | | not present in 1 gram. | |
| TOTAL_YEAST_AND_MOLD | | not present in 1 gram. | |

Analysis Method -SOP.T.40.043 / SOP.T.40.044 / SOP.T.40.041

Analytical Batch -DA008887MIC Batch Date :

Instrument Used :

Running On :

| Analyzed by | Weight | Extraction date | Extracted By |
|-------------|---------|-----------------|--------------|
| 513, | 1.0454g | 12/20/19 | 513, |

| Reagent | Consums. ID | Consums. ID |
|------------|-------------|-------------|
| 121819.R08 | 2802012 | 19193 |
| | 2803022 | |
| | A02 | |
| | 010A | |
| | 020 | |
| | 011 | |

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing. Pour-plating is used for quantitation and confirmation, Total Yeast and Mold has an action limit of 100,000 CFU.

| | | |
|---|-------------------|---------------|
|  | Mycotoxins | PASSED |
|---|-------------------|---------------|

| Analyte | LOD | Units | Result | Action Level (PPM) |
|------------------|-------|-------|--------|--------------------|
| AFLATOXIN G2 | 0.002 | ppm | ND | |
| AFLATOXIN G1 | 0.002 | ppm | ND | |
| AFLATOXIN B2 | 0.002 | ppm | ND | |
| AFLATOXIN B1 | 0.002 | ppm | ND | |
| OCHRATOXIN A+ | 0.002 | ppm | ND | 0.02 |
| TOTAL AFLATOXINS | 0.02 | PPM | ND | 0.02 |

Analysis Method -SOP.T.30.065, SOP.T.40.065

Analytical Batch -DA008899

Instrument Used :

Running On :

Batch Date :

| Analyzed by | Weight | Extraction date | Extracted By |
|-------------|--------|-----------------|--------------|
| 585 | 1g | NA | NA |

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T.40.065 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Aflatoxin B1, B2, G1, and G2 must individually be <20ug/Kg. Ochratoxins must be <20µg/Kg.

| | | |
|---|---------------------|---------------|
|  | Heavy Metals | PASSED |
|---|---------------------|---------------|

| Reagent | Reagent | Dilution |
|------------|------------|----------|
| 121619.R16 | 112119.R02 | 50 |
| 122019.R01 | | |
| 121919.R01 | | |
| 121219.R08 | | |
| 120419.R02 | | |
| 111319.01 | | |

| Metal | LOD | Unit | Result | Action Level (PPM) |
|---------|------|------|--------|--------------------|
| ARSENIC | 0.01 | PPM | ND | 0.2 |
| CADMIUM | 0.01 | PPM | ND | 0.2 |
| LEAD | 0.01 | PPM | <0.030 | 0.5 |
| MERCURY | 0.01 | PPM | ND | 0.1 |

| Analyzed by | Weight | Extraction date | Extracted By |
|-------------|---------|-------------------|--------------|
| 53 | 0.2599g | 12/20/19 11:12:07 | 457 |

Analysis Method -SOP.T.40.050, SOP.T.30.052

Analytical Batch -DA008884HEA

Instrument Used :

Running On :

Batch Date :

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.

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Jorge Segredo
 Lab Director

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 PJLA-Testing 97164


 Signature

12/31/19

Signed On