



# Certificate of Analysis

Sample: DA91218012-001  
Harvest/Lot ID: HS-TVF1218201901  
Cultivation Facility: Miami Cultivation  
Processing Facility: Homestead Processing  
Seed to Sale #7759 2954 6673 2717  
Batch Date :N/A  
Batch#: HS-TVF1218201901  
Sample Size Received: 7.0 gram  
Total Weight/Volume: 2000 gram  
Retail Product Size: 0.5 gram gram  
Ordered : 12/18/19  
sampled : 12/18/19  
Completed: 12/20/19  
Sampling Method: SOP Client Method

Dec 20, 2019 | CURALEAF FLORIDA LLC

19000 SW 192 STREET  
MIAMI, FL, 33187, US



**PASSED**  
Page 1 of 5

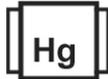
PRODUCT IMAGE



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



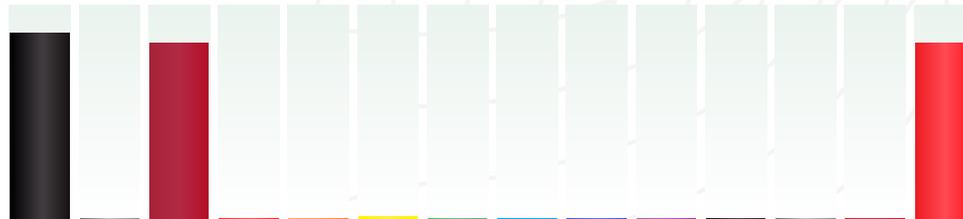
Total THC  
**85.089%**  
THC/Container :425.45 mg



Total CBD  
**0.176%**  
CBD/Container :0.88 mg



Total Cannabinoids  
**89.245%**  
Total Cannabinoids / Container :0.000



	TOTAL CA	TOTAL CB	TOTAL TH	CBC	CBGA	CBG	THCV	DB-THC	CBDV	CBN	CBDA	CBD	THCA	D9-THC
%	89.2450	0.1760	85.0890	0.9570	ND	1.6610	0.5000	0.1419	ND	0.6370	0.0590	0.1250	0.6040	84.5600
mg/g	892.4500	1.7590	850.8900	9.5700	ND	16.6100	5.0000	1.4200	ND	6.3700	0.5900	1.2500	6.0400	845.6000
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	0.0010
	%	%	%	%	%	%	%	%	%	%	%	%	%	%

**Filtration PASSED**

Analyzed By	Weight	Extraction date	Extracted By
584	1g	12/18/19	584
<b>Analyte</b>			<b>Result</b>
Filtration and Foreign Material			ND
<b>Analysis Method</b> -SOP.T.40.013			<b>LOD</b>
<b>Analytical Batch</b> -DA008820FIL			0
<b>Instrument Used</b>			<b>Batch Date</b>

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 :
450	0.1064g	12/18/19 04:12:29	574
<b>Analysis Method</b> -SOP.T.40.020, SOP.T.30.050			<b>Batch Date</b> :
<b>Analytical Batch</b> -DA008818POT			
	<b>Instrument Used :</b>		

Reagent	Dilution	Consums. ID
121719.R03 121719.R04	400	76124-662 SFN-BX-1025 849C4-849AK 840C6-840H1

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



Signature

12/20/19

Signed On

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



# Certificate of Analysis

**PASSED**

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

Sample : DA91218012-001  
Harvest/LOT ID: HS-TVF1218201901  
Batch# : HS-TVF1218201901  
Sampled : 12/18/19  
Ordered : 12/18/19

Sample Size Received : 7.0 gram  
Total Weight/Volume : 2000 gram  
Completed : 12/20/19 Expires: 12/20/20  
Sample Method : SOP Client Method

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## 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	1.751	0.175		SABINENE HYDRATE	0.007	ND	ND	
ALPHA-PINENE	0.007	0.733	0.073		TERPINEOL	0.007	0.688	0.068	
ALPHA-TERPINENE	0.007	ND	ND		TERPINOLENE	0.007	< 0.2	< 0.020	
BETA-MYRCENE	0.007	10.146	1.014		BETA-CARYOPHYLLENE	0.007	5.404	0.540	
BETA-PINENE	0.007	1.124	0.112		TRANS-NEROLIDOL	0.007	0.445	0.044	
BORNEOL	0.013	< 0.4	< 0.040		VALENCENE	0.007	ND	ND	
CAMPHENE	0.007	0.253	0.025						
CAMPHOR	0.013	ND	ND						
CARYOPHYLLENE OXIDE	0.007	< 0.2	< 0.020						
CEDROL	0.007	ND	ND						
ALPHA-BISABOLOL	0.007	0.725	0.072						
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	1.622	0.162						
FENCHONE	0.007	< 0.2	< 0.020						
GAMMA-TERPINENE	0.007	ND	ND						
GERANIOL	0.007	ND	ND						
GERANYL ACETATE	0.007	ND	ND						
GUAJOL	0.007	< 0.2	< 0.020						
LIMONENE	0.007	9.225	0.922						
LINALOOL	0.007	2.580	0.258						
NEROL	0.007	ND	ND						
OCIMENE	0.007	ND	ND						
ALPHA-PHELLANDRENE	0.007	ND	ND						
PULEGONE	0.007	ND	ND						
<b>Total (%)</b>		<b>3.470</b>							



## Terpenes

# TESTED

Analyzed by: 1118    Weight: 0.9536g    Extraction date: 12/18/19 11:12:32    Extracted By: 1118

Analysis Method -SOP.T.40.090  
Analytical Batch -DA008802TER  
Instrument Used :  
Running On :  
Batch Date :

Reagent	Dilution	Consums. ID
020519.17	10	76124-662 1929V5454

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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**Jorge Segredo**  
Lab Director



Signature

12/20/19

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Completed : 12/20/19 Expires: 12/20/20  
Sample Method : SOP Client Method

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## 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

---

<b>Analyzed by</b> 585	<b>Weight</b> 0.9434g	<b>Extraction date</b> 12/18/19 12:12:42	<b>Extracted By</b> 584
<small>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</small>			
<small>Analytical Batch - DA008805PES</small>			
<small>Instrument Used :</small>		<small>Batch Date :</small>	
<small>Running On :</small>	<small>Dilution</small>	<small>Consums. ID</small>	

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.T.40.065/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



12/20/19

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ISO Accreditation # ISO/IEC  
17025:2017 Accreditation  
PJLA-Testing 97164

Signature

Signed On



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Email: erick.ramirez@curaleaf.com

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Sampled : 12/18/19  
Ordered : 12/18/19

Sample Size Received : 7.0 gram  
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Completed : 12/20/19 Expires: 12/20/20  
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	722.946
PENTANES (N-PENTANE)	67.5	ppm	750	PASS	ND
ETHYL ETHER	45	ppm	500	PASS	ND
ACETONE	67.5	ppm	750	PASS	ND
2-PROPANOL	45	ppm	500	PASS	ND
ACETONITRILE	5.4	ppm	60	PASS	ND
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	Weight	Extraction date	Extracted By
850	0.0215g	12/18/19 03:12:50	850

Analysis Method -SOP.T.40.032  
Analytical Batch -DA008833SOL  
Instrument Used :  
Running On :  
Batch Date :

Reagent	Dilution	Consums. ID
	1	00276446 161040-1 24151941

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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**Jorge Segredo**  
Lab Director



Signature

12/20/19

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Email: erick.ramirez@curaleaf.com

Sample : DA91218012-001  
Harvest/LOT ID: HS-TVF1218201901  
Batch# : HS-TVF1218201901  
Sampled : 12/18/19  
Ordered : 12/18/19

Sample Size Received : 7.0 gram  
Total Weight/Volume : 2000 gram  
Completed : 12/20/19 Expires: 12/20/20  
Sample Method : SOP Client Method

Page 5 of 5



## Microbials

# PASSED



## Mycotoxins

# 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 -DA008798MIC Batch Date :  
Instrument Used :  
Running On :

Analyzed by	Weight	Extraction date	Extracted By
513,	1.1154g	12/18/19	513,

Reagent	Consums. ID	Consums. ID
121319.R18	2802011	19193
	A02	
	2803021	
	009D	
	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.

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 -DA008911MYC  
Instrument Used :  
Running On :  
Batch Date :

Analyzed by	Weight	Extraction date	Extracted By
53	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	052419.01	50
121819.R01		
120919.R07		
121319.R05		
121319.R06		
120419.R02		

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	ND	0.5
MERCURY	0.01	PPM	ND	0.1

Analyzed by	Weight	Extraction date	Extracted By
53	0.2610g	NA	NA

Analysis Method -SOP.T.40.050, SOP.T.30.052  
Analytical Batch -DA008813HEA  
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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