



# Certificate of Analysis

Sample: DA00110012-003  
Harvest/Lot ID: HS-TVF0110202002  
Cultivation Facility: Miami Cultivation  
Processing Facility: Homestead Processing  
Seed to Sale #5599 1413 1104 1131  
Batch Date :N/A  
Batch#: HS-TVF0110202002  
Sample Size Received: 7.0 gram  
Total Weight/Volume: 2000 gram  
Retail Product Size: 0.5 gram gram  
Ordered : 01/10/20  
sampled : 01/10/20  
Completed: 01/15/20  
Sampling Method: SOP Client Method

**PASSED**

Page 1 of 5

Jan 15, 2020 | CURALEAF FLORIDA LLC

19000 SW 192 STREET  
MIAMI, FL, 33187, US



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  
**83.983%**  
THC/Container :419.92 mg



Total CBD  
**0.000%**  
CBD/Container :0.00 mg



Total Cannabinoids  
**88.273%**  
Total Cannabinoids / Container :0.000



**Filtration PASSED**

Analyzed By	Weight	Extraction date	Extracted By
584	1g	01/10/20	584
<b>Analyte</b>			<b>Result</b>
Filtration and Foreign Material			ND
			<b>LOD</b>
			0
			<b>Batch Date</b> : 01/10/20
			14:57:25
<b>Analysis Method</b> -SOP.T.40.013			
<b>Analytical Batch</b> -DA009323FIL			
<b>Instrument Used</b> :			

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-26/T Stereo Microscope is used for inspection.

	TOTAL CA	TOTAL CB	TOTAL TH	CBC	CBGA	CBG	THCV	DB-THC	CBDV	CBN	CBDA	CBD	THCA	D9-THC
%	88.2730	ND	83.9830	1.6990	ND	1.6560	0.6090	ND	ND	0.2610	ND	ND	0.5240	83.5240
mg/g	882.7300	ND	839.8300	16.9899	ND	16.5600	6.0900	ND	ND	2.6100	ND	ND	5.2400	835.2400
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
	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Cannabinoid Profile Test

<b>Analyzed by</b> 1224	<b>Weight</b> 0.1022g	<b>Extraction date</b> : 01/10/20 12:01:46	<b>Extracted By</b> : 965
<b>Analysis Method</b> -SOP.T.40.020, SOP.T.30.050	<b>Instrument Used</b> : DA-LC-003	<b>Batch Date</b> : 01/10/20 09:25:55	
<b>Analytical Batch</b> -DA009300POT			

Reagent	Dilution	Consums. ID
123019.R09 010920.R05 010920.R04	400	76124-662 SFN-BX-1025 849CA-849AK 840CE-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



Signature

01/15/20

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 : DA00110012-003  
Harvest/LOT ID: HS-TVF0110202002

Batch# : HS-TVF0110202002  
Sampled : 01/10/20  
Ordered : 01/10/20

Sample Size Received : 7.0 gram  
Total Weight/Volume : 2000 gram  
Completed : 01/15/20 Expires: 01/15/21  
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	1.577	0.157		SABINENE HYDRATE	0.007	ND	ND	
ALPHA-PINENE	0.007	2.798	0.279		TERPINEOL	0.007	ND	ND	
ALPHA-TERPINENE	0.007	ND	ND		TERPINOLENE	0.007	1.813	0.181	
BETA-MYRCENE	0.007	11.989	1.198		BETA-CARYOPHYLLENE	0.007	10.312	1.031	
BETA-PINENE	0.007	1.886	0.188		TRANS-NEROLIDOL	0.007	ND	ND	
BORNEOL	0.013	ND	ND		VALENCENE	0.007	ND	ND	
CAMPHENE	0.007	ND	ND						
CAMPHOR	0.013	ND	ND						
CARYOPHYLLENE OXIDE	0.007	ND	ND						
CEDROL	0.007	ND	ND						
ALPHA-BISABOLOL	0.007	1.148	0.114						
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	ND	ND						
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	0.229	0.022						
LIMONENE	0.007	12.548	1.254						
LINALOOL	0.007	2.429	0.242						
NEROL	0.007	ND	ND						
OCIMENE	0.007	ND	ND						
ALPHA-PHELLANDRENE	0.007	ND	ND						
PULEGONE	0.007	ND	ND						
<b>Total (%)</b>		4.673							



## Terpenes

**TESTED**

**Analyzed by** 1118     **Weight** 0.8890g     **Extraction date** 01/10/20 12:01:51     **Extracted By** 1118

**Analysis Method** -SOP.T.40.090  
**Analytical Batch** -DA009311TER  
**Instrument Used** : Liquid Injection GCMS QP2010  
**Running On** :  
**Batch Date** : 01/10/20 11:11:45

Reagent	Dilution	Consums. ID
052119.04	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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**Jorge Segredo**  
Lab Director



01/15/20

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Batch# : HS-TVF0110202002  
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Completed : 01/15/20 Expires: 01/15/21  
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
AZOXYSTROBIN	0.01	ppm	0.01	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
ABAMECTIN B1A	0.02	ppm	0.1	ND	PRALLETHRIN	0.05	ppm	0.1	ND
CIS-PERMETHRIN	0.05	ppm	0.1	ND	PROPICONAZOLE	0.01	ppm	0.1	ND
SPINETORAM	0.01	PPM	0.2	ND	PROPOXUR	0.01	ppm	0.1	ND
ACEPHATE	0.001	ppm	0.1	ND	PYRETHRIN I	0.01	ppm	0.5	ND
FENOXYCARB	0.01	ppm	0.1	ND	PYRIDABEN	0.01	ppm	0.2	ND
DIMETHOMORPH	0.005	ppm	0.2	ND	SPINOSAD (SPINOSYN A)	0.01	ppm	0.1	ND
BIFENAZATE	0.01	ppm	0.1	ND	SPINOSAD (SPINOSYN D)	0.01	ppm	0.1	ND
ETHOPROPHOS	0.01	ppm	0.1	ND	SPIROMESIFEN	0.01	ppm	0.1	ND
ACEQUINOCYL	0.01	ppm	0.1	ND	SPIROTETRAMAT	0.02	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	0.1	ND	SPIROXAMINE	0.01	ppm	0.1	ND
ETOFENPROX	0.01	ppm	0.1	ND	TEBUCONAZOLE	0.01	ppm	0.1	ND
BIFENTHRIN	0.01	ppm	0.1	ND	THIACLOPRID	0.01	ppm	0.1	ND
ALDICARB	0.02	ppm	0.1	ND	THIAMETHOXAM	0.01	ppm	0.5	ND
ETOXAZOLE	0.01	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	0.1	ND
FENPYROXIMATE	0.01	ppm	0.1	ND					
FIPRONIL	0.02	ppm	0.1	ND					
FENHEXAMID	0.01	ppm	0.1	ND					
CARBARYL	0.01	ppm	0.5	ND					
CARBOFURAN	0.01	ppm	0.1	ND					
FLONICAMID	0.01	ppm	0.1	ND					
FLUIDIOXONIL	0.01	ppm	0.1	ND					
CHLORFENAPYR	0.01	ppm	0.1	ND					
CHLORANTRANILIPROLE	0.01	ppm	1	ND					
HEXYTHIAZOX	0.01	ppm	0.1	ND					
CHLORPYRIFOS	0.01	ppm	0.1	ND					
IMAZALIL	0.01	ppm	0.1	ND					
MALATHION	0.01	ppm	0.2	ND					
CLOFENTEZINE	0.01	ppm	0.2	ND					
DAMINOZIDE	0.02	ppm	0.1	ND					
IMIDACLOPRID	0.01	ppm	0.4	ND					
METALAXYL	0.01	ppm	0.02	ND					
DICHLORVOS	0.05	ppm	0.1	ND					
METHIOCARB	0.01	ppm	0.05	ND					
COUMAPHOS	0.005	ppm	0.1	ND					
METHOMYL	0.01	ppm	0.1	ND					
KRESOXIM-METHYL	0.01	ppm	0.1	ND					
DIAZANON	0.01	ppm	0.1	ND					
CYPERMETHRIN	0.01	ppm	0.5	ND					
MEVINPHOS	0.01	ppm	0.1	ND					
MYCLOBUTANIL	0.01	ppm	0.1	ND					
NALED	0.01	ppm	0.25	ND					


**Pesticides**
PASSED

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<b>Analyzed by</b> 585	<b>Weight</b> 0.8786g	<b>Extraction date</b> 01/10/20 01:01:25	<b>Extracted By</b> 1082
<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 - DA009301PES</small>			
<small>Instrument Used : LCMS E-SHI-039</small>			
<small>Running On :</small>		<small>Batch Date : 01/10/20 09:35:23</small>	

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<b>Reagent</b>	<b>Dilution</b>	<b>Consums. ID</b>
<small>101519.04 010220.805 010220.806</small>		<small>180711</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



Signature

01/15/20

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17025:2017 Accreditation  
PJLA-Testing 97164

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MIAMI, FL, 33187, US  
Telephone: 7865860672  
Email: erick.ramirez@curaleaf.com

Sample : DA00110012-003  
Harvest/LOT ID: HS-TVF0110202002  
Batch# : HS-TVF0110202002  
Sampled : 01/10/20  
Ordered : 01/10/20

Sample Size Received : 7.0 gram  
Total Weight/Volume : 2000 gram  
Completed : 01/15/20 Expires: 01/15/21  
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	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	ND
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: 0.0221g    Extraction date: 01/10/20 02:01:22    Extracted By: 850

Analysis Method -SOP.T.40.032  
Analytical Batch -DA009286SOL  
Instrument Used : Headspace GCMS 2  
Running On :  
Batch Date : 01/09/20 15:44:33

Reagent	Dilution	Consums. ID
	1	00276446 160861-1 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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**Jorge Segredo**  
Lab Director



Signature

01/15/20

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MIAMI, FL, 33187, US  
Telephone: 7865860672  
Email: erick.ramirez@curaleaf.com

Sample : DA00110012-003  
Harvest/LOT ID: HS-TVF0110202002  
Batch# : HS-TVF0110202002  
Sampled : 01/10/20  
Ordered : 01/10/20

Sample Size Received : 7.0 gram  
Total Weight/Volume : 2000 gram  
Completed : 01/15/20 Expires: 01/15/21  
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 -DA009295MIC Batch Date : 01/10/20, 01/10/20  
Instrument Used : PathogenDX PCR\_Array Scanner, PathogenDX PCR\_Array Scanner  
Running On :

Analyzed by	Weight	Extraction date	Extracted By
513,	1g	01/10/20	513,

Reagent	Consums. ID	Consums. ID
010920.R03	2802012	19193
	2803022	012
	A02	
	010A	
	020	
	2805021	

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 -DA009302  
Instrument Used : LCMS E-SHI-039  
Running On :  
Batch Date : 01/10/20 09:36:06

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
010220.R09	111319.01	50
010920.R15		
010920.R01		
010320.R03		
010220.R04		
010620.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	0.2730g	NA	NA

Analysis Method -SOP.T.40.050, SOP.T.30.052  
Analytical Batch -DA009308HEA  
Instrument Used : ICPMS-2030  
Running On :  
Batch Date : 01/10/20 10:27:04

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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