



# Certificate of Analysis

Mar 27, 2020 | CURALEAF FLORIDA LLC

19000 SW 192 STREET  
MIAMI, FL, 33187, US



Sample: DA00324009-002  
Harvest/Lot ID: HS-TETH0315202002  
Cultivation Facility: Miami Cultivation  
Processing Facility : Homestead Processing  
Seed to Sale #2017 5130 7329 4609  
Batch Date :03/15/20  
Batch#: HS-TETH0315202002  
Sample Size Received: 7 gram  
Total Weight/Volume: 450 gram  
Retail Product Size: 1.0 gram gram  
Ordered : 03/24/20  
sampled : 03/24/20  
Completed: 03/27/20  
Sampling Method: SOP.T.20.010

**PASSED**

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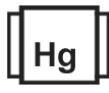
## PRODUCT IMAGE



## 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**

## CANNABINOID RESULTS



Total THC

**74.465%**

THC/Container :744.658 mg



Total CBD

**0.239%**

CBD/Container :2.394 mg



Total Cannabinoids

**90.196%**

Total Cannabinoids/Container  
:901.960 mg

	TOTAL CA	TOTAL CB	TOTAL TH	CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
%	90.1960	0.2390	74.4650	0.1150	4.6980	0.4690	ND	ND	ND	ND	0.2730	ND	1.9160	82.7250
mg/g	901.9600	2.3889	744.6500	1.1500	46.9799	4.6900	ND	ND	ND	ND	2.7300	ND	19.1600	827.2500
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	0.0001	0.0010
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

**Filtration PASSED**

Analyzed By: 584  
Analyte: Filth and Foreign Material  
Weight: 1g  
Extraction date: 03/24/20  
Extracted By: 584  
LOD: 0  
Result: ND  
Analysis Method -SOP.T.40.013  
Batch Date : 03/24/20 10:51:35  
Analytical Batch -DA011177FIL  
Reviewed On - 03/24/20 15:45:42  
Instrument Used : Filth/Foreign Material Microscope

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	0.1172g	03/24/20 11:03:53	965
Analysis Method -SOP.T.40.020, SOP.T.30.050		Reviewed On - 03/25/20 11:16:56	Batch Date : 03/24/20 08:24:49
Analytical Batch -DA011165POT	Instrument Used : DA-LC-003		
Reagent	Dilution	Consums. ID	
030520.03	400	180111 280653964 914C4-914AK 928C6-929H	

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

03/27/20

Signed On



# Certificate of Analysis

**PASSED**

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

**Sample :** DA00324009-002  
**Harvest/LOT ID:** HS-TETH0315202002

**Batch# :** HS-TETH0315202002  
**Sampled :** 03/24/20  
**Ordered :** 03/24/20

**Sample Size Received :** 7 gram  
**Total Weight/Volume :** 450 gram  
**Completed :** 03/27/20 **Expires:** 03/27/21  
**Sample Method :** SOP.T.20.010

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## Terpenes

**TESTED**

Terpenes	LOD(%)	mg/g	%	Result (%)	Terpenes	LOD(%)	mg/g	%	Result (%)
ALPHA-CEDRENE	0.007	ND	ND		EUCALYPTOL	0.007	0.229	0.022	
ALPHA-HUMULENE	0.007	2.299	0.229		ISOBORNEOL	0.007	ND	ND	
ALPHA-PINENE	0.007	ND	ND		HEXAHYDROTHYMOL	0.007	ND	ND	
ALPHA-TERPINENE	0.007	ND	ND		FENCHYL ALCOHOL	0.007	ND	ND	
BETA-MYRCENE	0.007	0.649	0.064		3-CARENE	0.007	ND	ND	
BETA-PINENE	0.007	ND	ND		CIS-NEROLIDOL	0.007	ND	ND	
BORNEOL	0.013	< 0.4	< 0.040		ISOPULEGOL	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-BISABOOL	0.007	0.457	0.045						
SABINENE	0.007	ND	ND						
SABINENE HYDRATE	0.007	ND	ND						
TERPINEOL	0.007	1.142	0.114						
TERPINOLENE	0.007	< 0.2	< 0.020						
BETA-CARYOPHYLLENE	0.007	8.463	0.846						
TRANS-NEROLIDOL	0.007	1.012	0.101						
VALENCENE	0.007	ND	ND						
PULEGONE	0.007	ND	ND						
ALPHA-PHELLANDRENE	0.007	ND	ND						
OCIMENE	0.007	ND	ND						
NEROL	0.007	< 0.2	< 0.020						
LINALOOL	0.007	1.036	0.103						
LIMONENE	0.007	0.654	0.065						
GUAIOL	0.007	ND	ND						
GERANYL ACETATE	0.007	ND	ND						
GERANIOL	0.007	< 0.2	< 0.020						
GAMMA-TERPINENE	0.007	ND	ND						
FENCHONE	0.007	< 0.2	< 0.020						
FARNESENE	0.007	8.230	0.823						
<b>Total (%)</b>		2.417							



## Terpenes

**TESTED**
**Analyzed by** 1351 **Weight** 0.9345g **Extraction date** 03/24/20 11:03:13 **Extracted By** 1351

**Analysis Method** -SOP.T.40.090  
**Analytical Batch** -DA011161TER **Reviewed On** - 03/26/20 08:23:04  
**Instrument Used** : Liquid Injection GCMS QP2010  
**Running On** :  
**Batch Date** : 03/24/20 07:42:18

Reagent	Dilution	Consums. ID
021420.11	10	180111
012120.R13		280653964

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-TETH0315202002

**Batch# :** HS-TETH0315202002  
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**Sample Method :** SOP.T.20.010

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**Pesticides**

**PASSED**

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.01	ppm	0.1	ND	OXAMYL	0.05	ppm	0.5	ND
ACEPHATE	0.01	ppm	0.1	ND	PACLOBUTRAZOL	0.01	ppm	0.1	ND
ACEQUINOCYL	0.01	ppm	0.1	ND	PHOSMET	0.01	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	0.1	ND	PIPERONYL BUTOXIDE	0.1	ppm	3	ND
ALDICARB	0.01	ppm	0.1	ND	PRALLETHRIN	0.01	ppm	0.1	ND
AZOXYSTROBIN	0.01	ppm	0.1	ND	PROPICONAZOLE	0.01	ppm	0.1	ND
BIFENAZATE	0.01	ppm	0.1	ND	PROPOXUR	0.01	ppm	0.1	ND
BIFENTHRIN	0.01	ppm	0.1	ND	PYRETHRINS	0.05	ppm	0.5	ND
BOSCALID	0.01	PPM	0.1	ND	PYRIDABEN	0.02	ppm	0.2	ND
CAPTAN	0.07	ppm	0.7	ND	SPINETORAM	0.02	PPM	0.2	ND
CARBARYL	0.05	ppm	0.5	ND	SPIROMESIFEN	0.01	ppm	0.1	ND
CARBOFURAN	0.01	ppm	0.1	ND	SPIROTETRAMAT	0.01	ppm	0.1	ND
CHLORANTRANILIPROLE	0.1	ppm	1	ND	SPIROXAMINE	0.01	ppm	0.1	ND
CHLORFENAPYR	0.01	ppm	0.1	ND	TEBUCONAZOLE	0.01	ppm	0.1	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	1	ND	THIACLOPRID	0.01	ppm	0.1	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	THIAMETHOXAM	0.05	ppm	0.5	ND
CLOFENTEZINE	0.02	ppm	0.2	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0	PPM	5	ND
COUMAPHOS	0.01	ppm	0.1	ND	TOTAL PERMETHRIN	0.01	ppm	0.1	ND
CYFLUTHRIN	0.05	ppm	0.5	ND	TOTAL SPINOSAD	0.01	ppm	0.1	ND
CYPERMETHRIN	0.05	ppm	0.5	ND	TRIFLOXYSTROBIN	0.01	ppm	0.1	ND
DAMINOZIDE	0.01	ppm	0.1	ND					
DIAZANON	0.01	ppm	0.1	ND					
DICHLORVOS	0.01	ppm	0.1	ND					
DIMETHOATE	0.01	ppm	0.1	ND					
DIMETHOMORPH	0.02	ppm	0.2	ND					
ETHOPROPHOS	0.01	ppm	0.1	ND					
ETOFENPROX	0.01	ppm	0.1	ND					
ETOXAZOLE	0.01	ppm	0.1	ND					
FENHEXAMID	0.01	ppm	0.1	ND					
FENOXYCARB	0.01	ppm	0.1	ND					
FENPYROXIMATE	0.01	ppm	0.1	ND					
FIPRONIL	0.01	ppm	0.1	ND					
FLONICAMID	0.01	ppm	0.1	ND					
FLUDIOXONIL	0.01	ppm	0.1	ND					
HEXYTHIAZOX	0.01	ppm	0.1	ND					
IMAZALIL	0.01	ppm	0.1	ND					
IMIDACLOPRID	0.04	ppm	0.4	ND					
KRESOXIM-METHYL	0.01	ppm	0.1	ND					
MALATHION	0.02	ppm	0.2	ND					
METALAXYL	0.01	ppm	0.1	ND					
METHIOCARB	0.01	ppm	0.1	ND					
METHOMYL	0.01	ppm	0.1	ND					
METHYL PARATHION	0.005	ppm	0.1	ND					
MEVINPHOS	0.01	ppm	0.1	ND					
MYCLOBUTANIL	0.01	ppm	0.1	ND					
NALED	0.025	ppm	0.25	ND					


**Pesticides**

**PASSED**

<b>Analyzed by</b> 585	<b>Weight</b> 1.0434g	<b>Extraction date</b> 03/24/20 11:03:09	<b>Extracted By</b> 1082
<b>Analysis Method</b> - SOP.T.30.065, SOP.T.40.065, SOP.T.40.066, SOP.T.40.070, SOP.T.30.065, SOP.T.40.070 <b>Analytical Batch</b> - DA011169PES			
<b>Instrument Used</b> - DA-LCMS-001_DER		<b>Reviewed On</b> - 03/24/20 15:45:42	
<b>Running On</b> :		<b>Batch Date</b> : 03/24/20 08:37:31	
<b>Reagent</b>	<b>Dilution</b>	<b>Consums. ID</b>	
013120.20 033220.810 033220.817	10	180111 280653964	

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

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

  
 Signature

03/27/20

Signed On





# Certificate of Analysis

**PASSED**

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

**Sample :** DA00324009-002  
**Harvest/LOT ID:** HS-TETH0315202002

**Batch# :** HS-TETH0315202002  
**Sampled :** 03/24/20  
**Ordered :** 03/24/20

**Sample Size Received :** 7 gram  
**Total Weight/Volume :** 450 gram  
**Completed :** 03/27/20 **Expires:** 03/27/21  
**Sample Method :** SOP.T.20.010

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	<b>Residual Solvents</b>	<b>PASSED</b>
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	<b>Residual Solvents</b>	<b>PASSED</b>
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Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
1,1-DICHLOROETHENE	1	ppm	8	PASS	ND
1,2-DICHLOROETHANE	0.18	ppm	2	PASS	ND
2-PROPANOL	45	ppm	500	PASS	ND
ACETONE	67.5	ppm	750	PASS	ND
ACETONITRILE	5.4	ppm	60	PASS	ND
BENZENE	0.09	ppm	1	PASS	ND
BUTANES (N-BUTANE)	96	ppm	5000	PASS	ND
CHLOROFORM	0.18	ppm	2	PASS	ND
DICHLROMETHANE	3.75	ppm	125	PASS	ND
ETHANOL	90	ppm	5000	PASS	1389.036
ETHYL ACETATE	36	ppm	400	PASS	ND
ETHYL ETHER	45	ppm	500	PASS	ND
ETHYLENE OXIDE	0.6	ppm	5	PASS	ND
HEPTANE	45	ppm	5000	PASS	ND
METHANOL	22.5	ppm	250	PASS	ND
N-HEXANE	4.5	ppm	250	PASS	ND
PENTANES (N-PENTANE)	67.5	ppm	750	PASS	ND
PROPANE	120	ppm	5000	PASS	ND
TOLUENE	13.5	ppm	150	PASS	ND
TOTAL XYLENES	13.5	ppm	150	PASS	ND
TRICHLOROETHYLENE	2.25	ppm	25	PASS	ND

Analyzed by	Weight	Extraction date	Extracted By
850	0.0210g	03/24/20 01:03:02	584
<b>Analysis Method -SOP.T.40.032</b> <b>Analytical Batch -DA011180SOL</b> <b>Instrument Used : Headspace GCMS</b> <b>Running On :</b> <b>Batch Date : 03/24/20 13:10:41</b>			
<b>Reviewed On - 03/25/20 12:47:56</b>			
Reagent	Dilution	Consums. ID	
	1	00279984	
		161291-1	
		24154107	

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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**Sample :** DA00324009-002  
**Harvest/LOT ID:** HS-TETH0315202002

**Batch# :** HS-TETH0315202002  
**Sampled :** 03/24/20  
**Ordered :** 03/24/20

**Sample Size Received :** 7 gram  
**Total Weight/Volume :** 450 gram  
**Completed :** 03/27/20 **Expires:** 03/27/21  
**Sample Method :** SOP.T.20.010

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	<b>Microbials</b>	<b>PASSED</b>
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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		<100	

**Analysis Method** -SOP.T.40.043 / SOP.T.40.044 / SOP.T.40.041  
**Analytical Batch** -DA011232MIC , DA011178TYM **Batch Date :** 03/26/20, 03/24/20  
**Instrument Used :** PathogenDX PCR\_Array Scanner, PathogenDX PCR\_Array Scanner  
**Running On :**

Analyzed by	Weight	Extraction date	Extracted By
513, 513	1.0836g	NA	NA, 513

Reagent	Consums. ID
012120.02	4603475C 914C4-914AK 929C6-929H 190611634

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.

	<b>Mycotoxins</b>	<b>PASSED</b>
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Analyte	LOD	Units	Result	Action Level (PPM)
AFLATOXIN G2	0.002	ppm	ND	0.02
AFLATOXIN G1	0.002	ppm	ND	0.02
AFLATOXIN B2	0.002	ppm	ND	0.02
AFLATOXIN B1	0.002	ppm	ND	0.02
OCHRATOXIN A+	0.002	ppm	ND	0.02

**Analysis Method** -SOP.T.30.065, SOP.T.40.065  
**Analytical Batch** -DA011170MYC | **Reviewed On** - 03/25/20 14:02:57  
**Instrument Used :** DA-LCMS-001\_DER  
**Running On :**  
**Batch Date :** 03/24/20 08:39:11

Analyzed by	Weight	Extraction date	Extracted By
585	1g	03/24/20 03:03:10	585

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 <20ug/Kg.

	<b>Heavy Metals</b>	<b>PASSED</b>
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Reagent	Dilution
032420.R01 031820.R03 031820.R02 031920.R01 111319.02	50

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.02	PPM	<0.100	0.2
CADMIUM	0.02	PPM	ND	0.2
LEAD	0.05	PPM	ND	0.5
MERCURY	0.02	PPM	ND	0.2

Analyzed by	Weight	Extraction date	Extracted By
53	0.2526g	03/24/20 12:03:14	457

**Analysis Method** -SOP.T.40.050, SOP.T.30.052  
**Analytical Batch** -DA011167HEA | **Reviewed On** - 03/25/20 06:49:24  
**Instrument Used :** ICPMS-2030 B  
**Running On :**  
**Batch Date :** 03/24/20 08:36:14

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

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

  
Signature

03/27/20

Signed On