



Certificate of Analysis

Sep 16, 2019 | CURALEAF FLORIDA LLC

19000 SW 192 STREET
MIAMI, FL, 33187, US



Sample: DA90911015-002
Harvest/Lot ID: HS-TETH0828201901
Cultivation Facility: Miami Cultivation
Processing Facility : Homestead Processing
Seed to Sale #3677 0439 6181 5023
Batch Date : N/A
Batch#: HS-TETH0828201901
Sample Size Received: 7.0 mg
Total Weight/Volume: 400 mg
Retail Product Size: 1.0 gram gram
Ordered : 09/11/19
sampled : 09/11/19
Completed: 09/16/19
Sampling Method: SOP Client Method

PASSED

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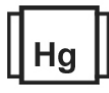
PRODUCT IMAGE



SAFETY RESULTS



Pesticides
NOT TESTED



Heavy Metals
NOT TESTED



Microbials
NOT TESTED



Mycotoxins
NOT TESTED



Residuals
Solvents
NOT TESTED



Filtration
NOT TESTED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
NOT TESTED

MISC.

CANNABINOID RESULTS



Total THC

73.806%

THC/Container : 738.06 mg



Total CBD

0.265%

CBD/Container : 2.66 mg



Total Cannabinoids

0.000%

Total Cannabinoids / Container
: 0.000

	D9-THC	THCA	CBD	CBDa	CBN	CBDV	D8-THC	THCV	CBG	CBGa	CBC	TOTAL TH	TOTAL CB
%	4.1410	79.4360	ND	0.3030	0.0230	ND	0.2030	ND	0.4470	4.3830	0.1250	73.8060	0.2650
mg/g	41.4099	794.3600	ND	3.0299	0.2300	ND	2.0290	ND	4.4700	43.8300	1.2500	738.0599	2.6500
LOD	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
%	%	%	%	%	%	%	%	%	%	%	%	%	%

	Filtration	NOT TESTED
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Analyzed By	Weight	Extraction date	Extracted By
584	1g	09/11/19	584
Analyte			Result
Filtration and Foreign Material			ND
Analysis Method	SOP.T.40.013		
Analytical Batch	DA006286		
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 :
372	0.1040g	09/11/19 03:09:10	574
Analysis Method	SOP.T.40.020, SOP.T.30.050		Batch Date :
Analytical Batch	DA006276		
Instrument Used :			

Reagent	Dilution	Consums. ID
091119.R07	40	76124-662
091019.R01		SFM-BX-1025
091119.R05		840C4-840AK
091119.R04		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

09/16/19

Signed On



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

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Harvest/LOT ID: HS-TETH0828201901

Batch# : HS-TETH0828201901
Sampled : 09/11/19
Ordered : 09/11/19

Sample Size Received : 7.0 mg
Total Weight/Volume : 400 mg
Completed : 09/16/19 **Expires:** 09/16/20
Sample Method : SOP Client Method

Page 2 of 5



Terpenes

NOT 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	12.567	1.256		SABINENE HYDRATE	0.007	ND	ND	
ALPHA-PINENE	0.007	ND	ND		TERPINEOL	0.007	0.969	0.096	
ALPHA-TERPINENE	0.007	ND	ND		TERPINOLENE	0.007	ND	ND	
BETA-MYRCENE	0.007	< 0.2	< 0.020		TRANS-CARYOPHYLLENE	0.007	33.851	3.385	
BETA-PINENE	0.007	ND	ND		TRANS-NEROLIDOL	0.007	ND	ND	
BORNEOL	0.013	< 0.4	< 0.040		VALENCENE	0.007	ND	ND	
CAMPHENE	0.007	ND	ND						
CAMPHOR	0.013	ND	ND						
CARYOPHYLLENE OXIDE	0.007	0.716	0.071						
CEDROL	0.007	ND	ND						
ALPHA-BISABOOL	0.007	ND	ND						
ISOPULEGOL	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
3-CARENE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	0.685	0.068						
HEXAHYDROTHYMOL	0.007	ND	ND						
EUCALYPTOL	0.007	0.254	0.025						
ISOBORNEOL	0.007	ND	ND						
FARNESENE	0.007	13.656	1.365						
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	0.865	0.086						
LINALOOL	0.007	0.722	0.072						
NEROL	0.007	ND	ND						
OCIMENE	0.007	ND	ND						
ALPHA-PHELLANDRENE	0.007	ND	ND						
PULEGONE	0.007	ND	ND						



Terpenes

NOT TESTED
Analyzed by 585 **Weight** 1.0486g **Extraction date** 09/12/19 05:09:11 **Extracted By** 585

Analysis Method -SOP.T.40.090
Analytical Batch -DA006273
Instrument Used :
Running On :
Batch Date :

Reagent	Dilution	Consums. ID
090619.R01	10	180711 SFN-BX-1025 923C4-923AK 910C6 - 910H

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.

Total (%) 6.429



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Pesticides

NOT TESTED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
DIMETHOATE	0.01	ppm	0.05	ND	PACLOBUTRAZOL	0.01	ppm	0.05	ND
ABAMECTIN B1A	0.02	ppm	0.1	ND	TRANS-PERMETHRIN	0.05	ppm	0.1	ND
PENTACHLORONITROBENZENE	0.005	ppm	0.2	ND	PHOSMET	0.01	ppm	0.1	ND
METHYL PARATHION	0.005	ppm	0.2	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
CYFLUTHRIN	0.025	ppm	1	ND	PRALLETHRIN	0.05	ppm	0.1	ND
CIS-PERMETHRIN	0.05	ppm	0.1	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	0.05	ND	PYRETHRIN I	0.01	ppm	0.5	ND
ETHOPROPHOS	0.01	ppm	0.05	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	0.05	ND	SPINOSAD (SPINOSYN D)	0.01	ppm	0.1	ND
ETOFENPROX	0.01	ppm	0.05	ND	SPIROMESIFEN	0.01	ppm	0.1	ND
ALDICARB	0.02	ppm	0.05	ND	SPIROTETRAMAT	0.02	ppm	0.1	ND
ETOXAZOLE	0.01	ppm	0.05	ND	SPIROXAMINE	0.01	ppm	0.05	ND
AZOXYSTROBIN	0.01	ppm	0.05	ND	TEBUCONAZOLE	0.01	ppm	0.05	ND
FENHEXAMID	0.01	ppm	0.1	ND	THIACLOPRID	0.01	ppm	0.05	ND
BIFENAZATE	0.01	ppm	0.1	ND	THIAMETHOXAM	0.01	ppm	0.05	ND
FENOXYCARB	0.01	ppm	0.05	ND	TRIFLOXYSTROBIN	0.01	ppm	0.1	ND
FENPYROXIMATE	0.01	ppm	0.5	ND					
BIFENTHRIN	0.01	ppm	0.1	ND					
CARBARYL	0.01	ppm		ND					
FIPRONIL	0.02	ppm	0.05	ND					
FLONICAMID	0.01	ppm	0.4	ND					
CARBOFURAN	0.01	ppm		ND					
CHLORANTRANILIPROLE	0.01	ppm		ND					
FLUDIOXONIL	0.01	ppm	0.1	ND					
HEXYTHIAZOX	0.01	ppm	0.25	ND					
CHLORFENAPYR	0.01	ppm	0.05	ND					
IMAZALIL	0.01	ppm	0.05	ND					
CHLORPYRIFOS	0.01	ppm	0.1	ND					
IMIDACLOPRID	0.01	ppm	0.1	ND					
CLOFENTEZINE	0.01	ppm	0.2	ND					
KRESOXIM-METHYL	0.01	ppm	0.1	ND					
COUMAPHOS	0.005	ppm	0.05	ND					
MALATHION	0.01	ppm	0.05	ND					
CYPERMETHRIN	0.01	ppm	0.5	ND					
DAMINOZIDE	0.01	ppm	0.5	ND					
METALAXYL	0.01	ppm	0.05	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	0.05	ND					
MEVINPHOS	0.01	ppm	0.05	ND					
MYCLOBUTANIL	0.01	ppm	0.1	ND					
NALED	0.01	ppm	0.25	ND					
OXAMYL	0.01	ppm	0.25	ND					

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Jorge Segredo
 Lab Director

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09/16/19

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	Residual Solvents NOT TESTED
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	Residual Solvents NOT TESTED
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Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
1,1-DICHLOROETHENE	0.2	ppm	8	PASS	ND
1,4-DIOXANE	22.8	ppm		PASS	ND
2-BUTANOL	140	ppm		PASS	ND
2-ETHOXYETHANOL	9.6	ppm		PASS	ND
2-PROPANOL	140	ppm	500	PASS	ND
ACETONE	140	ppm	750	PASS	ND
ACETONITRILE	6	ppm	60	PASS	ND
BENZENE	0.1	ppm	1	PASS	ND
BUTANES (ISO-BUTANE)	50	ppm	2000	PASS	ND
BUTANES (N-BUTANE)	50	ppm	2000	PASS	ND
CHLOROFORM	0.2	ppm	2	PASS	ND
ETHANOL	140	ppm	5000	PASS	913.645
ETHYL ACETATE	140	ppm	400	PASS	ND
CYCLOHEXANE	232.8	ppm		PASS	ND
DICHLOROMETHANE	36	ppm		PASS	ND
ETHYL ETHER	140	ppm	500	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
ETHYLBENZENE	130.2	ppm		PASS	ND
HEPTANE	140	ppm	500	PASS	ND
HEXANES (2,2-DIMETHYLBUTANE)	17.4	ppm	60	PASS	ND
HEXANES (2,3-DIMETHYLBUTANE)	17.4	ppm	60	PASS	ND
HEXANES (2-METHYLPENTANE)	17.4	ppm	60	PASS	ND
HEXANES (3-METHYLPENTANE)	17.4	ppm	60	PASS	ND
ISOPROPYL ACETATE	140	ppm		PASS	ND
METHYLENE CHLORIDE	1	ppm	125	PASS	ND
METHANOL	25	ppm	250	PASS	ND
N-HEXANE	17.4	ppm	60	PASS	ND
PENTANES (ISO-PENTANE)	140	ppm		PASS	ND
PENTANES (N-PENTANE)	50	ppm	750	PASS	ND
PENTANES (NEO-PENTANE)	50	ppm		PASS	ND
PROPANE	10	ppm	2100	PASS	ND
TETRAHYDROFURAN	43.2	ppm		PASS	ND
TOLUENE	15	ppm	150	PASS	ND
TOTAL XYLENES	15	ppm	150	PASS	ND
TRICHLOROETHYLENE	15	ppm	150	PASS	ND

Analyzed by 850	Weight 0.0215g	Extraction date 09/11/19 02:09:48	Extracted By 850
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Analysis Method -SOP.T.40.032
Analytical Batch -DA006278
Instrument Used :
Running On :
Batch Date :

Reagent	Dilution	Consums. ID
	1	

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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Page 5 of 5

	Microbials	NOT TESTED
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Analyte	LOD	Result
ASPERGILLUS_TERREUS_1J2		not present in 1 gram.
ASPERGILLUS_NIGER		not present in 1 gram.
ASPERGILLUS_FUMIGATUS		not present in 1 gram.
ASPERGILLUS_FLAVUS		not present in 1 gram.
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.

Analysis Method -SOP.T.40.043 / SOP.T.40.044 / SOP.T.40.041
Analytical Batch -DA006275 Batch Date :
Instrument Used :
Running On :

Analyzed by	Weight	Extraction date	Extracted By
513	1g	09/11/19	513

Reagent	Consums. ID
090619.R02	A01
	2803018
	013
	009A
	019
	009

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	NOT TESTED
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Analyte	LOD	Units	Result	Action Level (PPM)
AFLATOXIN_G2	0.001	ppm	ND	0.02
AFLATOXIN_G1	0.001	ppm	ND	0.02
AFLATOXIN_B2	0.001	ppm	ND	0.02
AFLATOXIN_B1	0.001	ppm	ND	0.02
OCHRATOXIN_A	0.001	ppm	ND	0.02

Analysis Method -SOP.T.30.065, SOP.T.40.065
Analytical Batch -DA006307
Instrument Used :
Running On :
Batch Date :

Analyzed by	Weight	Extraction date	Extracted By
56	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 <20ug/Kg.

	Heavy Metals	NOT TESTED
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Dilution

50

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.0062878	ppm	0.055	0.2
CADMIUM	0.0040357	ppm	ND	0.2
LEAD	0.0022993	ppm	0.073	0.5
MERCURY	0.0016524	ppm	ND	0.1

Analyzed by	Weight	Extraction date	Extracted By
457	0.5299g	09/11/19 04:09:35	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA006284
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.