



Certificate of Analysis

Jan 16, 2020 | CURALEAF FLORIDA LLC

19000 SW 192 STREET
MIAMI, FL, 33187, US

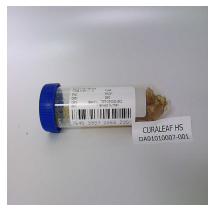


Sample: DA91010007-001
Harvest/Lot ID: HS-TETH0930201901
Cultivation Facility: Miami Cultivation
Processing Facility : Homestead Processing
Seed to Sale #7545 3937 2658 2350
Batch Date : N/A
Batch#: HS-TETH0930201901
Sample Size Received: 7.0 gram
Total Weight/Volume: 400 gram
Retail Product Size: 1.0 gram gram
Ordered : 10/10/19
sampled : 10/10/19
Completed: 01/16/20
Sampling Method: SOP Client Method

PASSED

Page 1 of 5

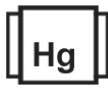
PRODUCT IMAGE



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

71.675%

THC/Container : 716.76 mg



Total CBD

0.222%

CBD/Container : 2.23 mg



Total Cannabinoids

85.095%

Total Cannabinoids / Container
: 0.000

	TOTAL CA	TOTAL CB	TOTAL TH	CBC	CBGA	CBG	THCV	DB-THC	CBDV	CBN	CBDA	CBD	THCA	D9-THC
%	85.0950	0.2220	71.6750	ND	3.1790	0.3600	ND	ND	ND	ND	0.2540	ND	78.2610	3.0410
mg/g	850.9500	2.2200	716.7500	ND	31.7900	3.6000	ND	ND	ND	ND	2.5400	ND	782.6100	30.4100
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	10/11/19	584
Analyte	LOD	Result	Batch Date
Filtration and Foreign Material	0	ND	10/10/19
			17:15:22

Analysis Method -SOP.T.40.013
Analytical Batch -DA007058
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 :
450	0.1014g	10/10/19 05:10:44	574
Analysis Method	Instrument Used	Batch Date	
-SOP.T.40.020, SOP.T.30.050	DA-LC-003	10/10/19 09:42:57	
Reagent	Dilution	Consumers. ID	
101019.R05 100819.R06		76124-662 SFN-BX-1025 849C4-849AK 849C5-849H	

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

01/16/20

Signed On



Certificate of Analysis

PASSED

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

Sample : DA91010007-001
Harvest/LOT ID: HS-TETH0930201901

Batch# : HS-TETH0930201901
Sampled : 10/10/19
Ordered : 10/10/19

Sample Size Received : 7.0 gram
Total Weight/Volume : 400 gram
Completed : 01/16/20 **Expires:** 01/16/21
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	4.783	0.478		SABINENE HYDRATE	0.007	ND	ND	
ALPHA-PINENE	0.007	< 0.2	< 0.020		TERPINEOL	0.007	1.837	0.183	
ALPHA-TERPINENE	0.007	ND	ND		TERPINOLENE	0.007	ND	ND	
BETA-MYRCENE	0.007	2.079	0.207		BETA-CARYOPHYLLENE	0.007	ND	ND	
BETA-PINENE	0.007	< 0.2	< 0.020		TRANS-NEROLIDOL	0.007	3.233	0.323	
BORNEOL	0.013	0.449	0.044		VALENCENE	0.007	1.594	0.159	
CAMPHENE	0.007	ND	ND						
CAMPHOR	0.013	< 0.4	< 0.040						
CARYOPHYLLENE OXIDE	0.007	0.625	0.062						
CEDROL	0.007	ND	ND						
ALPHA-BISABOLOL	0.007	0.962	0.096						
ISOPULEGOL	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
3-CARENE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	< 0.2	< 0.020						
HEXAHYDROTHYMOL	0.007	ND	ND						
EUCALYPTOL	0.007	ND	ND						
ISOBORNEOL	0.007	ND	ND						
FARNESENE	0.007	15.657	1.565						
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	0.986	0.098						
LINALOOL	0.007	2.332	0.233						
NEROL	0.007	ND	ND						
OCIMENE	0.007	ND	ND						
ALPHA-PHELLANDRENE	0.007	ND	ND						
PULEGONE	0.007	ND	ND						
Total (%)		3.454							



Terpenes

TESTED
Analyzed by 585 **Weight** 0.9183g **Extraction date** 10/11/19 02:10:02 **Extracted By** 585

Analysis Method -SOP.T.40.090
Analytical Batch -DA007065
Instrument Used : Liquid Injection GCMS QP2010
Running On :
Batch Date : 10/11/19 08:54:00

Reagent	Dilution	Consums. ID
100919.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.



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Harvest/LOT ID: HS-TETH0930201901

Batch# : HS-TETH0930201901
Sampled : 10/10/19
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Sample Size Received : 7.0 gram
Total Weight/Volume : 400 gram
Completed : 01/16/20 **Expires:** 01/16/21
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
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					
FLUDIOXONIL	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

Analyzed by 795	Weight 1.0318g	Extraction date 10/15/19 02:10:14	Extracted By 795
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 - DA007141 Instrument Used : LCMS E-SHI-039 Running On :			
			Batch Date : 10/14/19 17:34:47
Reagent	Dilution 10	Consums. ID	
<p>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.</p> <p>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.</p>			

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Jorge Segredo
 Lab Director

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


 Signature

01/16/20

Signed On



Certificate of Analysis

PASSED

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

Sample : DA91010007-001
Harvest/LOT ID: HS-TETH0930201901

Batch# : HS-TETH0930201901
Sampled : 10/10/19
Ordered : 10/10/19

Sample Size Received : 7.0 gram
Total Weight/Volume : 400 gram
Completed : 01/16/20 **Expires:** 01/16/21
Sample Method : SOP Client Method

Page 4 of 5

	Residual Solvents	PASSED
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	Residual Solvents	PASSED
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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	2418.503
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	<140.000
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 0.0236g	Extraction date 10/10/19 02:10:21	Extracted By 850
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Analysis Method -SOP.T.40.032
Analytical Batch -DA007044
Instrument Used : Headspace GCMS
Running On :
Batch Date : 10/10/19 14:17:04

Reagent	Dilution	Consums. ID
	1	00268767 160861-1 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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Harvest/LOT ID: HS-TETH0930201901

Batch# : HS-TETH0930201901
Sampled : 10/10/19
Ordered : 10/10/19

Sample Size Received : 7.0 gram
Total Weight/Volume : 400 gram
Completed : 01/16/20 **Expires:** 01/16/21
Sample Method : SOP Client Method

Page 5 of 5

	Microbials	PASSED
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Analyte	LOD	Result	Action Level (cfu/g)
ASPERGILLUS_TERREUS		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 -DA007037 Batch Date : 10/10/19
Instrument Used : PathogenDX PCR_Array Scanner
Running On :

Analyzed by	Weight	Extraction date	Extracted By
513	1.0004g	10/10/19	513

Reagent	Consums. ID
100719.R10	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	PASSED
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Analyte	LOD	Units	Result	Action Level (PPM)
TOTAL AFLATOXINS	0.02	PPM	ND	0.02

Analysis Method -SOP.T.30.065, SOP.T.40.065
Analytical Batch -DA007168
Instrument Used : LCMS E-SHI-039
Running On :
Batch Date : 10/15/19 14:44:34

Analyzed by	Weight	Extraction date	Extracted By
795	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.T40.065 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	PASSED
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Dilution

50

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.01	PPM	<0.030	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
450	0.5141g	10/10/19 02:10:32	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA007023
Instrument Used : ICPMS-2030
Running On :
Batch Date : 10/10/19 08:27:59

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.