



Certificate of Analysis

Jan 17, 2020 | CURALEAF FLORIDA LLC

19000 SW 192 STREET
MIAMI, FL, 33187, US



Sample: DA00113025-001

Harvest/Lot ID: HS-CFOH0110202002

Cultivation Facility: Miami Cultivation

Processing Facility : Homestead Processing

Seed to Sale #1239 8545 8354 0998

Batch Date : N/A

Batch#: HS-CFOH0110202002

Sample Size Received: 8.0 gram

Total Weight/Volume: 2000 gram

Retail Product Size: 30 ml gram

Ordered : 01/13/20

sampled : 01/13/20

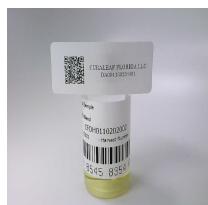
Completed: 01/17/20

Sampling Method: SOP Client Method

PASSED

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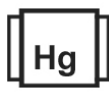
PRODUCT IMAGE



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

MISC.

CANNABINOID RESULTS



Total THC

0.079%

THC/Container : 23.70 mg



Total CBD

1.904%

CBD/Container : 571.29 mg



Total Cannabinoids

2.062%

Total Cannabinoids / Container
: 0.000

	TOTAL CA	TOTAL CB	TOTAL TH	CBC	CBGA	CBG	THCV	DB-THC	CBDV	CBN	CBDA	CBD	THCA	D9-THC
%	2.0620	1.9040	0.0790	0.0640	ND	0.0120	ND	ND	<0.010	ND	0.0220	1.8850	ND	0.0790
mg/g	20.6190	19.0400	0.7900	0.6400	ND	0.1200	ND	ND	<0.010	ND	0.2200	18.8500	ND	0.7900
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
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Analyzed By	Weight	Extraction date	Extracted By
584	1g	01/14/20	584
Analyte			Result
Filtration and Foreign Material			ND
			Batch Date : 01/14/20
			11:50:54

Analysis Method -SOP.T.40.013
Analytical Batch -DA009401FIL
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 :
1224	3.0318g	01/13/20 05:01:09	965
Analysis Method	SOP.T.40.020, SOP.T.30.050		Batch Date : 01/13/20 13:12:39
Analytical Batch	-DA009352POT	Instrument Used : DA-LC-003	

Reagent	Dilution	Consums. ID
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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

01/17/20

Signed On



Certificate of Analysis

PASSED

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

Sample : DA00113025-001
Harvest/LOT ID: HS-CFOH0110202002

Batch# : HS-CFOH0110202002
Sampled : 01/13/20
Ordered : 01/13/20

Sample Size Received : 8.0 gram
Total Weight/Volume : 2000 gram
Completed : 01/17/20 **Expires:** 01/17/21
Sample Method : SOP Client Method

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Terpenes

TESTED

Terpenes	LOD(%)	mg/g	%	Result (%)
ALPHA-CEDRENE	0.007	ND	ND	
ALPHA-HUMULENE	0.007	ND	ND	
ALPHA-PINENE	0.007	ND	ND	
ALPHA-TERPINENE	0.007	ND	ND	
BETA-MYRCENE	0.007	ND	ND	
BETA-PINENE	0.007	ND	ND	
BORNEOL	0.013	< 0.4	< 0.040	
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	ND	ND	
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	ND	ND	
LIMONENE	0.007	ND	ND	
LINALOOL	0.007	ND	ND	
NEROL	0.007	ND	ND	
OCIMENE	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	ND	ND	
PULEGONE	0.007	ND	ND	
Total (%)		0.000		

Terpenes	LOD(%)	mg/g	%	Result (%)
SABINENE	0.007	ND	ND	
SABINENE HYDRATE	0.007	ND	ND	
TERPINEOL	0.007	ND	ND	
TERPINOLENE	0.007	ND	ND	
BETA-CARYOPHYLLENE	0.007	ND	ND	
TRANS-NEROLIDOL	0.007	ND	ND	
VALENCENE	0.007	ND	ND	



Terpenes

TESTED
Analyzed by 1118 **Weight** 1.0113g **Extraction date** 01/14/20 08:01:28 **Extracted By** 1118

Analysis Method -SOP.T.40.090
Analytical Batch -DA009339TER
Instrument Used : Liquid Injection GCMS QP2010
Running On :
Batch Date : 01/13/20 09:20:15

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

Sample : DA00113025-001
Harvest/LOT ID: HS-CFOH0110202002

Batch# : HS-CFOH0110202002
Sampled : 01/13/20
Ordered : 01/13/20

Sample Size Received : 8.0 gram
Total Weight/Volume : 2000 gram
Completed : 01/17/20 **Expires:** 01/17/21
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	3	ND	PACLOBUTRAZOL	0.01	ppm	0.1	ND
BOSCALID	0.01	PPM	3	ND	TRANS-PERMETHRIN	0.05	ppm	1	ND
DIMETHOATE	0.01	ppm	0.1	ND	PHOSMET	0.01	ppm	0.2	ND
AZOXYSTROBIN	0.01	ppm	3	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
ABAMECTIN B1A	0.02	ppm	0.3	ND	PRALLETHRIN	0.05	ppm	0.4	ND
CIS-PERMETHRIN	0.05	ppm	1	ND	PROPICONAZOLE	0.01	ppm	1	ND
SPINETORAM	0.01	PPM	3	ND	PROPOXUR	0.01	ppm	0.1	ND
ACEPHATE	0.001	ppm	3	ND	PYRETHRIN I	0.01	ppm	1	ND
FENOXYCARB	0.01	ppm	0.1	ND	PYRIDABEN	0.01	ppm	3	ND
DIMETHOMORPH	0.005	ppm	3	ND	SPINOSAD (SPINOSYN A)	0.01	ppm	3	ND
BIFENAZATE	0.01	ppm	3	ND	SPINOSAD (SPINOSYN D)	0.01	ppm	3	ND
ETHOPROPHOS	0.01	ppm	0.1	ND	SPIROMESIFEN	0.01	ppm	3	ND
ACEQUINOCYL	0.01	ppm	2	ND	SPIROTETRAMAT	0.02	ppm	3	ND
ACETAMIPRID	0.01	ppm	3	ND	SPIROXAMINE	0.01	ppm	0.1	ND
ETOFENPROX	0.01	ppm	0.1	ND	TEBUCONAZOLE	0.01	ppm	1	ND
BIFENTHRIN	0.01	ppm	0.5	ND	THIACLOPRID	0.01	ppm	0.1	ND
ALDICARB	0.02	ppm	0.1	ND	THIAMETHOXAM	0.01	ppm	1	ND
ETOXAZOLE	0.01	ppm	1.5	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
FENPYROXIMATE	0.01	ppm	2	ND					
FIPRONIL	0.02	ppm	0.1	ND					
FENHEXAMID	0.01	ppm	3	ND					
CARBARYL	0.01	ppm	0.5	ND					
CARBOFURAN	0.01	ppm	0.1	ND					
FLONICAMID	0.01	ppm	2	ND					
FLUDIOXONIL	0.01	ppm	3	ND					
CHLORFENAPYR	0.01	ppm	0.1	ND					
CHLORANTRANILIPROLE	0.01	ppm	3	ND					
HEXYTHIAZOX	0.01	ppm	2	ND					
CHLORPYRIFOS	0.01	ppm	0.1	ND					
IMAZALIL	0.01	ppm	0.1	ND					
MALATHION	0.01	ppm	2	ND					
CLOFENTEZINE	0.01	ppm	0.5	ND					
DAMINOZIDE	0.02	ppm	0.1	ND					
IMIDACLOPRID	0.01	ppm	3	ND					
METALAXYL	0.01	ppm	3	ND					
DICHLORVOS	0.05	ppm	0.1	ND					
METHIOCARB	0.01	ppm	0.1	ND					
COUMAPHOS	0.005	ppm	0.1	ND					
METHOMYL	0.01	ppm	0.1	ND					
KRESOXIM-METHYL	0.01	ppm	1	ND					
DIAZANON	0.01	ppm	0.2	ND					
CYPERMETHRIN	0.01	ppm	1	ND					
MEVINPHOS	0.01	ppm	0.1	ND					
MECLOBUTANIL	0.01	ppm	3	ND					
NALED	0.01	ppm	0.5	ND					



Pesticides

PASSED

Analyzed by	Weight	Extraction date	Extracted By
585	1.0446g	NA	NA
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 - DA009355PES			
Instrument Used : LCMS E-SHI-039			
Running On :		Batch Date : 01/13/20 13:36:52	
Reagent	Dilution	Consums. ID	
101519.04 010220.805 010220.806		180711	

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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 Lab Director

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 Signature

01/17/20

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Sample : DA00113025-001
Harvest/LOT ID: HS-CFOH0110202002

Batch# : HS-CFOH0110202002
Sampled : 01/13/20
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Sample Size Received : 8.0 gram
Total Weight/Volume : 2000 gram
Completed : 01/17/20 **Expires:** 01/17/21
Sample Method : SOP Client Method

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	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	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 0.0217g	Extraction date 01/14/20 03:01:08	Extracted By 850
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Analysis Method -SOP.T.40.032
Analytical Batch -DA009408SOL
Instrument Used : Headspace GCMS
Running On :
Batch Date : 01/14/20 14:58:03

Reagent	Dilution	Consums. ID
	1	00276446 161040-1 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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Harvest/LOT ID: HS-CFOH0110202002

Batch# : HS-CFOH0110202002
Sampled : 01/13/20
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Sample Size Received : 8.0 gram
Total Weight/Volume : 2000 gram
Completed : 01/17/20 **Expires:** 01/17/21
Sample Method : SOP Client Method

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	Microbials	PASSED
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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		not present in 1 gram.	

Analysis Method -SOP.T.40.043 / SOP.T.40.044 / SOP.T.40.041
 Analytical Batch -DA009374MIC Batch Date : 01/13/20, 01/13/20
 Instrument Used : PathogenDX PCR_Array Scanner, PathogenDX PCR_Array Scanner
 Running On :

Analyzed by	Weight	Extraction date	Extracted By
513,	1.0058g	01/13/20	1082,

Reagent	Consums. ID
011320.R03	2802012
	2803022
	010A
	020
	011
	19193

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)
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 -DA009357
 Instrument Used : LCMS E-SHI-039
 Running On :
 Batch Date : 01/13/20 13:37:44

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
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Reagent	Reagent	Dilution
010220.R09	111319.01	50
011320.R04	010920.R18	
010620.R02	010920.R19	
010920.R01		
011020.R13		
010220.R04		

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.01	PPM	ND	1.5
CADMIUM	0.01	PPM	ND	0.5
LEAD	0.01	PPM	ND	0.5
MERCURY	0.01	PPM	ND	3

Analyzed by	Weight	Extraction date	Extracted By
396	0.2640g	01/14/20 10:01:22	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
 Analytical Batch -DA009386HEA
 Instrument Used : ICPMS-2030
 Running On :
 Batch Date : 01/14/20 08:46:11

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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 Lab Director

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