



Certificate of Analysis

Sample: DA00416005-002
Harvest/Lot ID: HS-TFOH415202002
Cultivation Facility: Mt. Dora Cultivation
Processing Facility: Homestead Processing
Seed to Sale #9784 2511 9535 9180
Batch Date : N/A
Batch#: HS-TFOH415202002
Sample Size Received: 8.0 gram
Total Weight/Volume: 4000 gram
Retail Product Size: 60 ml gram
Ordered : 04/16/20
sampled : 04/16/20
Completed: 04/19/20
Sampling Method: SOP.T.20.010

PASSED

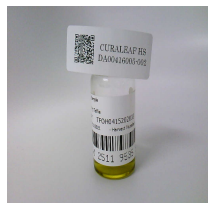
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Apr 19, 2020 | CURALEAF FLORIDA LLC

19000 SW 192 STREET
MIAMI, FL, 33187, US



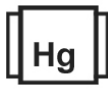
PRODUCT IMAGE



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

1.033%

THC/Container : 595.008 mg



Total CBD

0.000%

CBD/Container : 0.000 mg



Total Cannabinoids

1.075%

Total Cannabinoids/Container
: 619.776 mg

	TOTAL CA	TOTAL CB	TOTAL TH	CBC	CBGA	CBG	THCV	DB-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
%	1.0750	ND	1.0330	0.0170	ND	0.0260	ND	ND	ND	<0.010	ND	ND	1.0330	<0.300
mg/g	10.7500	ND	10.3290	0.1700	ND	0.2600	ND	ND	ND	<0.010	ND	ND	10.3300	<0.300
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	Weight	Extraction date
584	1g	NA
Analyte		Extracted By
Filtration and Foreign Material		LOD
		0
Analysis Method -SOP.T.40.013	Batch Date : 04/16/20 13:08:04	NA
Analytical Batch -DA011729FIL	Reviewed On - 04/16/20 13:16:11	Result
Instrument Used : Filtration/Foreign Material Microscope		ND

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	2.4165g	04/16/20 12:04:04	965
Analysis Method -SOP.T.40.020, SOP.T.30.050		Reviewed On - 04/17/20 12:43:31	Batch Date : 04/16/20 11:13:16
Analytical Batch -DA011727POT	Instrument Used : DA-LC-003 CBD		

Reagent	Dilution	Consums. ID
032320.30	400	180111
041420.R18		914C4-914AK
041420.R17		929C6-929H

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

04/19/20

Signed On



Certificate of Analysis

PASSED

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

Sample : DA00416005-002
Harvest/LOT ID: HS-TFOH415202002

Batch# : HS-TFOH415202002
Sampled : 04/16/20
Ordered : 04/16/20

Sample Size Received : 8.0 gram
Total Weight/Volume : 4000 gram
Completed : 04/19/20 **Expires:** 04/19/21
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	ND	ND	
ALPHA-HUMULENE	0.007	ND	ND		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	< 0.2	< 0.020		3-CARENE	0.007	< 0.2	< 0.020	
BETA-PINENE	0.007	ND	ND		CIS-NEROLIDOL	0.007	ND	ND	
BORNEOL	0.013	ND	ND		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-BISABOLOL	0.007	ND	ND						
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	< 0.2	< 0.020						
TRANS-NEROLIDOL	0.007	ND	ND						
VALENCENE	0.007	ND	ND						
PULEGONE	0.007	ND	ND						
ALPHA-PHELLANDRENE	0.007	ND	ND						
OCIMENE	0.007	< 0.2	< 0.020						
NEROL	0.007	< 0.2	< 0.020						
LINALOOL	0.007	< 0.2	< 0.020						
LIMONENE	0.007	ND	ND						
GUAIOL	0.007	ND	ND						
GERANYL ACETATE	0.007	< 0.2	< 0.020						
GERANIOL	0.007	ND	ND						
GAMMA-TERPINENE	0.007	ND	ND						
FENCHONE	0.007	ND	ND						
FARNESENE	0.007	ND	ND						



Terpenes

TESTED
Analyzed by 1351 **Weight** 0.99633g **Extraction date** 04/16/20 11:04:49 **Extracted By** 1351

Analysis Method -SOP.T.40.090
Analytical Batch -DA011705TER **Reviewed On - 04/19/20 07:53:31**
Instrument Used : DA-GCMS-004
Running On :
Batch Date : 04/16/20 07:38:51

Reagent	Dilution	Consums. ID
030620.05	10	180111
030620.08		280678841
040720.08		
012120.R13		

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 (%) 0.000



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Harvest/LOT ID: HS-TFOH415202002

Batch# : HS-TFOH415202002
Sampled : 04/16/20
Ordered : 04/16/20

Sample Size Received : 8.0 gram
Total Weight/Volume : 4000 gram
Completed : 04/19/20 **Expires:** 04/19/21
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	0.3	ND	PIPERONYL BUTOXIDE	0.1	ppm	3	ND
ACEPHATE	0.01	ppm	3	ND	PRALLETHRIN	0.01	ppm	0.4	ND
ACEQUINOCYL	0.01	ppm	2	ND	PROPICONAZOLE	0.01	ppm	1	ND
ACETAMIPRID	0.01	ppm	3	ND	PROPOXUR	0.01	ppm	0.1	ND
ALDICARB	0.01	ppm	0.1	ND	PYRETHRINS	0.05	ppm	1	ND
AZOXYSTROBIN	0.01	ppm	3	ND	PYRIDABEN	0.02	ppm	3	ND
BIFENAZATE	0.01	ppm	3	ND	SPINETORAM	0.02	PPM	3	ND
BIFENTHRIN	0.01	ppm	0.5	ND	SPIROMESIFEN	0.01	ppm	3	ND
BOSCALID	0.01	PPM	3	ND	SPIROTETRAMAT	0.01	ppm	3	ND
CARBARYL	0.05	ppm	0.5	ND	SPIROXAMINE	0.01	ppm	0.1	ND
CARBOFURAN	0.01	ppm	0.1	ND	TEBUCONAZOLE	0.01	ppm	1	ND
CHLORANTRANILIPROLE	0.1	ppm	3	ND	THIACLOPRID	0.01	ppm	0.1	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	3	ND	THIAMETHOXAM	0.05	ppm	1	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0	PPM	20	0.028
CLOFENTEZINE	0.02	ppm	0.5	ND	TOTAL PERMETHRIN	0.01	ppm	1	ND
COUMAPHOS	0.01	ppm	0.1	ND	TOTAL SPINOSAD	0.01	ppm	3	<0.050
DAMINOZIDE	0.01	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
DIAZANON	0.01	ppm	0.2	ND					
DICHLORVOS	0.01	ppm	0.1	ND					
CYPERMETHRIN	0.05	ppm	1	ND					
DIMETHOATE	0.01	ppm	0.1	ND					
DIMETHOMORPH	0.02	ppm	3	ND					
ETHOPROPHOS	0.01	ppm	0.1	ND					
ETOFENPROX	0.01	ppm	0.1	ND					
ETOXAZOLE	0.01	ppm	1.5	ND					
FENHEXAMID	0.01	ppm	3	ND					
FENOXYCARB	0.01	ppm	0.1	ND					
FENPYROXIMATE	0.01	ppm	2	ND					
FIPRONIL	0.01	ppm	0.1	ND					
FLONICAMID	0.01	ppm	2	ND					
FLUDIOXONIL	0.01	ppm	3	ND					
HEXYTHIAZOX	0.01	ppm	2	ND					
IMAZALIL	0.01	ppm	0.1	ND					
IMIDACLOPRID	0.04	ppm	3	ND					
KRESOXIM-METHYL	0.01	ppm	1	ND					
MALATHION	0.02	ppm	2	ND					
METALAXYL	0.01	ppm	3	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	3	ND					
NALED	0.025	ppm	0.5	ND					
OXAMYL	0.05	ppm	0.5	ND					
PACLOBUTRAZOL	0.01	ppm	0.1	ND					
PHOSMET	0.01	ppm	0.2	ND					



Pesticides

PASSED

Analyzed by 585	Weight 0.9540g	Extraction date 04/16/20 12:04:51	Extracted By 1082
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 - DA011718PES			Reviewed On - 04/16/20 13:16:11
Instrument Used : DA-LCMS-001_DER (PES)			Batch Date : 04/16/20 09:16:19
Running On :			
Reagent 041320.R34 111819.R03 020720.R09 041620.R12 041620.R13	Dilution 10	Consums. ID 180111 280678841	
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

04/19/20

Signed On



Certificate of Analysis

PASSED

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

Sample : DA00416005-002
Harvest/LOT ID: HS-TFOH415202002

Batch# : HS-TFOH415202002
Sampled : 04/16/20
Ordered : 04/16/20

Sample Size Received : 8.0 gram
Total Weight/Volume : 4000 gram
Completed : 04/19/20 **Expires:** 04/19/21
Sample Method : SOP.T.20.010

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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
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
DICHLOROMETHANE	3.75	ppm	125	PASS	ND
ETHANOL	90	ppm		PASS	ND
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	0.0232g	04/16/20 01:04:50	850
Analysis Method -SOP.T.40.032 Analytical Batch -DA011732SOL Instrument Used : DA-GCMS-002 Running On : Batch Date : 04/16/20 13:48:14			
Reviewed On - 04/17/20 13:38:22			
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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Harvest/LOT ID: HS-TFOH415202002

Batch# : HS-TFOH415202002
Sampled : 04/16/20
Ordered : 04/16/20

Sample Size Received : 8.0 gram
Total Weight/Volume : 4000 gram
Completed : 04/19/20 **Expires:** 04/19/21
Sample Method : SOP.T.20.010

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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		<100	

Analysis Method -SOP.T.40.043 / SOP.T.40.044 / SOP.T.40.041
Analytical Batch -DA011710MIC , DA011728TYM **Batch Date :** 04/16/20, 04/16/20
Instrument Used : PathogenDX PCR_Array Scanner DA-111,PathogenDX PCR_DA-171,
PathogenDX PCR_Array Scanner DA-111
Running On :

Analyzed by	Weight	Extraction date	Extracted By
513, 513	1.0081g	04/16/20	1082, 513

Reagent	Reagent	Reagent	Consums. ID	Consums. ID
022520.06	022120.182	022120.224	181019-274	50AX26219
101619.04	022120.50	022120.153	SG298A	19323
013120.80	022120.192	022120.154	181207119C	23819111
121719.94	032720.140	022120.156	918C4-918J	190611634
022120.35	032720.110	022120.86	914C4-914AK	
022120.281	020320.54	032720.159	929C6-929H	

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	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 -DA011719 | **Reviewed On** - 04/18/20 15:17:40
Instrument Used : DA-LCMS-001_DER (MYC)
Running On :
Batch Date : 04/16/20 09:17:27

Analyzed by	Weight	Extraction date	Extracted By
585	1g	04/16/20 03:04:21	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.

	Heavy Metals	PASSED
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Reagent	Reagent	Dilution	Consums. ID
041520.R01	041320.R01	50	106557-04-091619
111319.05	041320.R29		
041320.R05	040720.R10		
041320.R04			
041320.R03			
041320.R02			

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.02	PPM	ND	1.5
CADMIUM	0.02	PPM	ND	0.5
LEAD	0.05	PPM	ND	0.5
MERCURY	0.02	PPM	ND	3

Analyzed by	Weight	Extraction date	Extracted By
53	0.2400g	04/16/20 02:04:56	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA011707HEA | **Reviewed On** - 04/17/20 11:44:06
Instrument Used : DA-ICPMS-002
Running On :
Batch Date : 04/16/20 08:21:22

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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Signature

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