



Certificate of Analysis

Sample: DA00226013-004
Harvest/Lot ID: HS-CFOH0225202001
Cultivation Facility: Miami Cultivation
Processing Facility: Homestead Processing
Seed to Sale #3230 9001 9018 9869
Batch Date :N/A
Batch#: HS-CFOH0225202001
Sample Size Received: 8.0 gram
Total Weight/Volume: 46800 gram
Retail Product Size: 30 ml gram
Ordered : 02/26/20
sampled : 02/26/20
Completed: 02/28/20
Sampling Method: SOP.T.20.010

Feb 28, 2020 | CURALEAF FLORIDA LLC

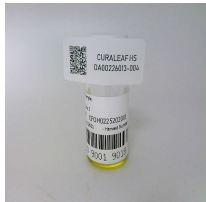
19000 SW 192 STREET
MIAMI, FL, 33187, US



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

0.159%

THC/Container :45.792 mg



Total CBD

1.750%

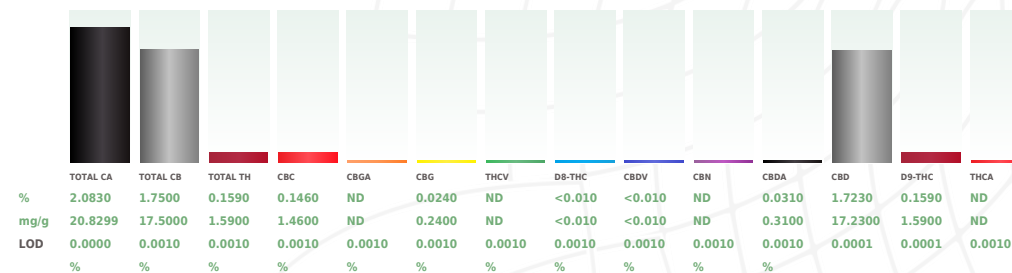
CBD/Container :504.054 mg



Total Cannabinoids

2.083%

Total Cannabinoids/Container
:599.904 mg



Filtration PASSED

Analyzed By: 584
Analyte: Filtration and Foreign Material
Analysis Method: -SOP.T.40.013
Analytical Batch: -DA010525FIL
Instrument Used: Filtration/Foreign Material Microscope
Weight: 1g
Extraction date: 02/26/20
Extracted By: 584
LOD: 0
Result: ND
Batch Date: 02/26/20 16:59:59
Reviewed On: 02/26/20 17:03:57

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	3.1293g	02/26/20 12:02:52	965
Analysis Method -SOP.T.40.020, SOP.T.30.050		Reviewed On - 02/27/20 12:23:13	Batch Date : 02/26/20 09:23:10
Analytical Batch -DA010509POT	Instrument Used : DA-LC-003		
Reagent	Dilution	Consums. ID	
022120.R12	400	180111 280653964 914C4-914AK 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

02/28/20

Signed On



Certificate of Analysis

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

Sample : DA00226013-004
Harvest/LOT ID: HS-CFOH0225202001

Batch# : HS-CFOH0225202001
Sampled : 02/26/20
Ordered : 02/26/20

Sample Size Received : 8.0 gram
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Completed : 02/28/20 **Expires:** 02/28/21
Sample Method : SOP.T.20.010

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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	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	ND	ND	
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	ND	ND	
NEROL	0.007	ND	ND	
LINALOOL	0.007	ND	ND	
LIMONENE	0.007	ND	ND	
GUAIOL	0.007	ND	ND	
GERANYL ACETATE	0.007	ND	ND	
GERANIOL	0.007	ND	ND	
GAMMA-TERPINENE	0.007	ND	ND	
FENCHONE	0.007	ND	ND	
FARNESENE	0.007	ND	ND	
Total (%)		0.000		

Terpenes	LOD(%)	mg/g	%	Result (%)
EUCALYPTOL	0.007	ND	ND	
ISOBORNEOL	0.007	ND	ND	
HEXAHYDROTHYMOL	0.007	ND	ND	
FENCHYL ALCOHOL	0.007	ND	ND	
3-CARENE	0.007	ND	ND	
CIS-NEROLIDOL	0.007	ND	ND	
ISOPULEGOL	0.007	ND	ND	



Terpenes

TESTED
Analyzed by 1351 **Weight** 1.0058g **Extraction date** 02/26/20 11:02:54 **Extracted By** 1351

Analysis Method -SOP.T.40.090
Analytical Batch -DA010494TER **Reviewed On - 02/28/20 08:55:50**
Instrument Used : Liquid Injection GCMS QP2020 (E-SHI-128)
Running On :
Batch Date : 02/26/20 08:21:02

Reagent	Dilution	Consums. ID
021420.10	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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Sample : DA00226013-004
Harvest/LOT ID: HS-CFOH0225202001

Batch# : HS-CFOH0225202001
Sampled : 02/26/20
Ordered : 02/26/20

Sample Size Received : 8.0 gram
Total Weight/Volume : 46800 gram
Completed : 02/28/20 **Expires:** 02/28/21
Sample Method : SOP.T.20.010

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Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
CYPERMETHRIN	0.01	ppm	1	ND	PROPICONAZOLE	0.01	ppm	1	ND
ABAMECTIN B1A	0.02	ppm	0.3	ND	PROPOXUR	0.01	ppm	0.1	ND
ACEPHATE	0.001	ppm	3	ND	PYRETHRINS	0.01	ppm	1	ND
ACEQUINOCYL	0.01	ppm	2	ND	PYRIDABEN	0.01	ppm	3	ND
ACETAMIPRID	0.01	ppm	3	ND	SPINETORAM	0.01	PPM	3	ND
ALDICARB	0.02	ppm	0.1	ND	SPIROMESIFEN	0.01	ppm	3	ND
AZOXYSTROBIN	0.01	ppm	3	ND	SPIROTETRAMAT	0.02	ppm	3	ND
BIFENAZATE	0.01	ppm	3	ND	SPIROXAMINE	0.01	ppm	0.1	ND
BIFENTHRIN	0.01	ppm	0.5	ND	TEBUCONAZOLE	0.01	ppm	1	ND
BOSCALID	0.01	PPM	3	ND	THIACLOPRID	0.01	ppm	0.1	ND
CARBARYL	0.01	ppm	0.5	ND	THIAMETHOXAM	0.01	ppm	1	ND
CARBOFURAN	0.01	ppm	0.1	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.1	PPM	20	ND
CHLORANTRANILIPROLE	0.01	ppm	3	ND	TOTAL PERMETHRIN	1	ppm	1	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	TOTAL SPINOSAD	1	ppm	3	ND
CLOFENTEZINE	0.01	ppm	0.5	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
COUMAPHOS	0.005	ppm	0.1	ND					
DAMINOZIDE	0.02	ppm	0.1	ND					
DIAZANON	0.01	ppm	0.2	ND					
DICHLORVOS	0.05	ppm	0.1	ND					
DIMETHOATE	0.01	ppm	0.1	ND					
DIMETHOMORPH	0.005	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	0.02	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	0.01	ppm	3	ND					
KRESOXIM-METHYL	0.01	ppm	1	ND					
MALATHION	0.01	ppm	2	ND					
METALAXYL	0.01	ppm	3	ND					
METHIOCARB	0.01	ppm	0.1	ND					
METHOMYL	0.01	ppm	0.1	ND					
MEVINPHOS	0.01	ppm	0.1	ND					
MYCLOBUTANIL	0.01	ppm	3	ND					
NALED	0.01	ppm	0.5	ND					
OXAMYL	0.01	ppm	0.5	ND					
PACLOBUTRAZOL	0.01	ppm	0.1	ND					
PHOSMET	0.01	ppm	0.2	ND					
PIPERONYL BUTOXIDE	0.01	ppm	3	ND					
PRALLETHRIN	0.05	ppm	0.4	ND					



Pesticides

PASSED
Analyzed by 585 **Weight** 1.0709g **Extraction date** 02/26/20 12:02:12 **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 - DA010498PES

Reviewed On- 02/26/20 17:03:57

Instrument Used : DA-LCMS-001_DER

Batch Date : 02/26/20 09:00:56

Reagent	Dilution	Consums. ID
013120.30 028420.804 028420.805	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

02/28/20

Signed On



Certificate of Analysis

PASSED

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

Sample : DA00226013-004
Harvest/LOT ID: HS-CFOH0225202001

Batch# : HS-CFOH0225202001
Sampled : 02/26/20
Ordered : 02/26/20

Sample Size Received : 8.0 gram
Total Weight/Volume : 46800 gram
Completed : 02/28/20 **Expires:** 02/28/21
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
BUTANES (N-BUTANE)	96	ppm	5000	PASS	ND
CHLOROFORM	0.18	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.18	ppm	2	PASS	ND
1,1-DICHLOROETHENE	1	ppm	8	PASS	ND
DICHLOROMETHANE	3.75	ppm	125	PASS	ND
ETHANOL	90	ppm	1000000	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
ACETONE	67.5	ppm	750	PASS	ND
PROPANE	120	ppm	5000	PASS	ND
ACETONITRILE	5.4	ppm	60	PASS	ND
TOLUENE	13.5	ppm	150	PASS	ND
BENZENE	0.09	ppm	1	PASS	ND
TOTAL XYLENES	13.5	ppm	150	PASS	ND
2-PROPANOL	45	ppm	500	PASS	ND
TRICHLOROETHYLENE	2.25	ppm	25	PASS	ND

Analyzed by 850	Weight 0.0210g	Extraction date 02/26/20 03:02:40	Extracted By 850
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Analysis Method -SOP.T.40.032
Analytical Batch -DA010524SOL **Reviewed On - 02/27/20 16:15:41**
Instrument Used : Headspace GCMS 2
Running On :
Batch Date : 02/26/20 14:25:23

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 : DA00226013-004
Harvest/LOT ID: HS-CFOH0225202001

Batch# : HS-CFOH0225202001
Sampled : 02/26/20
Ordered : 02/26/20

Sample Size Received : 8.0 gram
Total Weight/Volume : 46800 gram
Completed : 02/28/20 **Expires:** 02/28/21
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		not present in 1 gram.	

Analysis Method -SOP.T.40.043 / SOP.T.40.044 / SOP.T.40.041
 Analytical Batch -DA010497MIC Batch Date : 02/26/20, 02/26/20
 Instrument Used : PathogenDX PCR_Array Scanner,PathogenDX PCR_DA-171,
 PathogenDX PCR_Array Scanner
 Running On :

Analyzed by	Weight	Extraction date	Extracted By
513,	1.0205g	02/26/20	1082,

Reagent	Reagent	Reagent	Reagent	Reagent	Consums. ID	Consums. ID
022620.R03	122719.73	122719.126	013120.162	122719.64	181019-274	50AX26219
121619.09	013120.131	020420.359	013120.291		SG298A	19323
013120.77	013120.158	020420.363	013120.298		181207119C	23819111
013120.102	013120.335	121719.08	013120.344		918C4-918J	104867-12
013120.110	013120.343	122719.51	020420.382		914C4-914AK	190611634
122719.71	122719.41	013120.405	013120.404		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 -DA010499 | Reviewed On - 02/27/20 11:32:10
 Instrument Used : DA-LCMS-001_DER
 Running On :
 Batch Date : 02/26/20 09:01:51

Analyzed by	Weight	Extraction date	Extracted By
585	1g	02/26/20 11:02:50	585

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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Reagent	Reagent	Dilution
022520.R13	021720.R04	50
022520.R10	021420.R01	
022420.R01	111319.02	
022420.R02		
021720.R06		
021920.R01		

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

Analyzed by	Weight	Extraction date	Extracted By
53	0.2515g	02/26/20 11:02:05	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
 Analytical Batch -DA010502HEA | Reviewed On - 02/27/20 07:46:35
 Instrument Used : ICPMS-2030 B
 Running On :
 Batch Date : 02/26/20 09:11:34

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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