



Certificate of Analysis

Mar 11, 2020 | CURALEAF FLORIDA LLC

19000 SW 192 STREET
MIAMI, FL, 33187, US



Sample: DA00306020-001

Harvest/Lot ID: HS-TVF0306202001

Cultivation Facility: Miami Cultivation

Processing Facility: Homestead Processing

Seed to Sale #6165 7344 9058 7745

Batch Date : N/A

Batch#: HS-TVF0306202001

Sample Size Received: 7.0 gram

Total Weight/Volume: 2000 gram

Retail Product Size: 0.5 gram gram

Ordered : 03/06/20

sampled : 03/06/20

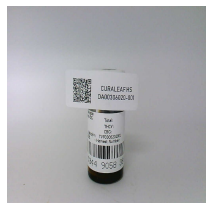
Completed: 03/11/20

Sampling Method: SOP.T.20.010

PASSED

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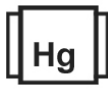
PRODUCT IMAGE



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

77.993%

THC/Container : 389.967 mg



Total CBD

0.000%

CBD/Container : 0.000 mg



Total Cannabinoids

81.216%

Total Cannabinoids/Container
: 406.080 mg

TOTAL CA	TOTAL CB	TOTAL TH	CBC	CBGA	CBG	THCV	DB-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
%	81.2159	ND	77.9930	0.8320	ND	1.6480	0.2000	ND	ND	0.4510	ND	77.3409	0.7440
mg/g	812.1600	ND	779.9299	8.3200	ND	16.4800	2.0000	ND	ND	4.5100	ND	773.4100	7.4400
LOD	0.0000	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: 584
Weight: 1g
Extraction date: 03/06/20
Extracted By: 584
Analyte: LOD
Filtration and Foreign Material
Analysis Method -SOP.T.40.013
Batch Date : 03/06/20 18:23:00
Analytical Batch -DA010785FIL
Reviewed On - 03/06/20 18:39:40
Instrument Used : Filtration/Foreign Material Microscope

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	0.1140g	03/06/20 12:03:56	965
Analysis Method -SOP.T.40.020, SOP.T.30.050		Reviewed On - 03/09/20 09:34:25	Batch Date : 03/06/20 11:21:13
Analytical Batch -DA010765POT		Instrument Used : DA-LC-003	
Reagent	Dilution	Consums. ID	
022720.R11	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. LOD for all cannabinoids is 1 mg/L).

Label Claim

Analyte	LOD	Units	Result
SERVINGS	1	servings	1.000
THC/SERVING	1	mg	389.967
CBD/SERVING	1	mg	ND
CBN/CONTAINER	0.1	mg	2.255
CBG/CONTAINER	1	mg	8.240

PASSED

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Jorge Segredo
Lab Director

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


Signature

03/11/20

Signed On



Certificate of Analysis

PASSED

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

Sample : DA00306020-001
Harvest/LOT ID: HS-TVF0306202001

Batch# : HS-TVF0306202001
Sampled : 03/06/20
Ordered : 03/06/20

Sample Size Received : 7.0 gram
Total Weight/Volume : 2000 gram
Completed : 03/11/20 **Expires:** 03/11/21
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	2.810	0.281		ISOBORNEOL	0.007	ND	ND	
ALPHA-PINENE	0.007	2.022	0.202		HEXAHYDROTHYMOL	0.007	ND	ND	
ALPHA-TERPINENE	0.007	ND	ND		FENCHYL ALCOHOL	0.007	ND	ND	
BETA-MYRCENE	0.007	9.814	0.981		3-CARENE	0.007	ND	ND	
BETA-PINENE	0.007	2.201	0.220		CIS-NEROLIDOL	0.007	ND	ND	
BORNEOL	0.013	ND	ND		ISOPULEGOL	0.007	ND	ND	
CAMPHENE	0.007	0.557	0.055						
CAMPHOR	0.013	ND	ND						
CARYOPHYLLENE OXIDE	0.007	0.509	0.050						
CEDROL	0.007	ND	ND						
ALPHA-BISABOOL	0.007	ND	ND						
SABINENE	0.007	ND	ND						
SABINENE HYDRATE	0.007	ND	ND						
TERPINEOL	0.007	2.828	0.282						
TERPINOLENE	0.007	0.384	0.038						
BETA-CARYOPHYLLENE	0.007	9.634	0.963						
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	< 0.2	< 0.020						
LINALOOL	0.007	2.920	0.292						
LIMONENE	0.007	8.127	0.812						
GUAJOL	0.007	ND	ND						
GERANYL ACETATE	0.007	ND	ND						
GERANIOL	0.007	0.466	0.046						
GAMMA-TERPINENE	0.007	ND	ND						
FENCHONE	0.007	ND	ND						
FARNESENE	0.007	ND	ND						
Total (%)		4.227							



Terpenes

TESTED
Analyzed by 1351 **Weight** 0.9117g **Extraction date** 03/06/20 12:03:14 **Extracted By** 1351

Analysis Method -SOP.T.40.090
Analytical Batch -DA010703TER **Reviewed On - 03/09/20 08:33:45**
Instrument Used : Liquid Injection GCMS QP2020 (E-SHI-128)
Running On :
Batch Date : 03/05/20 08:05:06

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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Harvest/LOT ID: HS-TVF0306202001

Batch# : HS-TVF0306202001
Sampled : 03/06/20
Ordered : 03/06/20

Sample Size Received : 7.0 gram
Total Weight/Volume : 2000 gram
Completed : 03/11/20 **Expires:** 03/11/21
Sample Method : SOP.T.20.010

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Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
DIMETHOATE	0.01	ppm	0.1	ND	PACLOBUTRAZOL	0.01	ppm	0.1	ND
CYPERMETHRIN	0.05	ppm	0.5	ND	PHOSMET	0.01	ppm	0.1	ND
CYFLUTHRIN	0.05	ppm	0.5	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
CHLORFENAPYR	0.01	ppm	0.1	ND	PRALLETHRIN	0.05	ppm	0.1	ND
METHYL PARATHION	0.005	ppm	0.1	ND	PROPICONAZOLE	0.01	ppm	0.1	ND
CAPTAN	0.07	ppm	0.7	ND	PROPOXUR	0.01	ppm	0.1	ND
ABAMECTIN B1A	0.02	ppm	0.1	ND	PYRETHRINS	0.01	ppm	0.5	ND
ACEPHATE	0.001	ppm	0.1	ND	PYRIDABEN	0.01	ppm	0.2	ND
DICHLORVOS	0.05	ppm	0.1	ND	SPINETORAM	0.01	PPM	0.2	ND
DIMETHOMORPH	0.005	ppm	0.2	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
ETHOPROPHOS	0.01	ppm	0.1	ND	TEBUCONAZOLE	0.01	ppm	0.1	ND
ALDICARB	0.02	ppm	0.1	ND	THIACLOPRID	0.01	ppm	0.1	ND
ETOFENPROX	0.01	ppm	0.1	ND	THIAMETHOXAM	0.01	ppm	0.5	ND
AZOXYSTROBIN	0.01	ppm	0.1	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.1	PPM	5	0.068
ETOXAZOLE	0.01	ppm	0.1	ND	TOTAL PERMETHRIN	1	ppm	0.1	ND
BIFENAZATE	0.01	ppm	0.1	ND	TOTAL SPINOSAD	1	ppm	0.1	0.068
FENHEXAMID	0.01	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	0.1	ND
FENOXYCARB	0.01	ppm	0.1	ND	CHLORDANE *	0.01	ppm	0.1	ND
BIFENTHRIN	0.01	ppm	0.1	ND	PCNB *	0.01	PPM	0.15	ND
BOSCALID	0.01	PPM	0.1	ND					
FENPYROXIMATE	0.01	ppm	0.1	ND					
CARBARYL	0.01	ppm	0.5	ND					
FIPRONIL	0.02	ppm	0.1	ND					
FLONICAMID	0.01	ppm	0.1	ND					
CARBOFURAN	0.01	ppm	0.1	ND					
CHLORANTRANILIPROLE	0.01	ppm	1	ND					
FLUDIOXONIL	0.01	ppm	0.1	ND					
HEXYTHIAZOX	0.01	ppm	0.1	ND					
IMAZALIL	0.01	ppm	0.1	ND					
IMIDACLOPRID	0.01	ppm	0.4	ND					
CHLORPYRIFOS	0.01	ppm	0.1	ND					
KRESOXIM-METHYL	0.01	ppm	0.1	ND					
MALATHION	0.01	ppm	0.2	ND					
CLOFENTHINE	0.01	ppm	0.2	ND					
METALAXYL	0.01	ppm	0.1	ND					
COUMAPHOS	0.005	ppm	0.1	ND					
METHIOCARB	0.01	ppm	0.1	ND					
METHOMYL	0.01	ppm	0.1	ND					
DAMINOZIDE	0.02	ppm	0.1	ND					
DIAZANON	0.01	ppm	0.1	ND					
MEVINPHOS	0.01	ppm	0.1	ND					
MYCLOBUTANIL	0.01	ppm	0.1	ND					
NALED	0.01	ppm	0.25	ND					
OXAMYL	0.01	ppm	0.5	ND					



Pesticides

PASSED

Analyzed by 585 ,	Weight 0.9350g	Extraction date 03/10/20 04:03:52	Extracted By 585 , 584
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 - DA010840PES , DA010778			
Instrument Used : DA-LCMS-001_DER		Reviewed On - 03/06/20 18:39:40	
Running On :		Batch Date : 03/10/20 10:21:32	
Reagent 020720.03 030920.014 030920.015	Dilution 10	Consums. ID 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

03/11/20

Signed On



Certificate of Analysis

PASSED

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

Sample : DA00306020-001
Harvest/LOT ID: HS-TVF0306202001

Batch# : HS-TVF0306202001
Sampled : 03/06/20
Ordered : 03/06/20

Sample Size Received : 7.0 gram
Total Weight/Volume : 2000 gram
Completed : 03/11/20 **Expires:** 03/11/21
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	5000	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	<17.400
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 0.0208g	Extraction date 03/06/20 02:03:38	Extracted By 850
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Analysis Method -SOP.T.40.032
Analytical Batch -DA010775SOL **Reviewed On - 03/09/20 12:04:22**
Instrument Used : Headspace GCMS 2
Running On :
Batch Date : 03/06/20 14:43:07

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

Sample : DA00306020-001
Harvest/LOT ID: HS-TVF0306202001
Batch# : HS-TVF0306202001
Sampled : 03/06/20
Ordered : 03/06/20

Sample Size Received : 7.0 gram
Total Weight/Volume : 2000 gram
Completed : 03/11/20 **Expires:** 03/11/21
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 -DA010750MIC , DA010766TYM **Batch Date :** 03/06/20, 03/06/20
Instrument Used : PathogenDX PCR_Array Scanner,PathogenDX PCR_DA-010,
 PathogenDX PCR_Array Scanner
Running On :

Analyzed by	Weight	Extraction date	Extracted By
513, 513	1.0245g	03/06/20	513, 513

Reagent	Reagent	Reagent	Reagent	Consums. ID	Consums. ID
082019.46	121719.22	013120.317	013120.217	181019-274	50AX26219
121619.09	013120.93	013120.401	013120.274	SG298A	19323
020320.58	013120.110	121719.06	013120.276	181207119C	23819111
013120.338	013120.141	013120.234		918C4-918J	190611634
013120.260	013120.303	121719.12		914C4-914AK	
013120.398	020320.67	013120.170		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 -DA010841MYC | **Reviewed On** - 03/11/20 16:30:25
Instrument Used : DA-LCMS-001_DER
Running On :
Batch Date : 03/10/20 10:22:46

Analyzed by	Weight	Extraction date	Extracted By
585	1g	03/10/20 04:03:23	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
030320.R13	030420.R01	50
030620.R01	030320.R12	
030220.R01	111319.02	
030220.R02		
030420.R03		
030420.R02		

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.02	PPM	ND	0.2
CADMIUM	0.02	PPM	ND	0.2
LEAD	0.02	PPM	ND	0.5
MERCURY	0.02	PPM	ND	0.2

Analyzed by	Weight	Extraction date	Extracted By
53	0.2577g	03/06/20 03:03:38	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA010755HEA | **Reviewed On** - 03/09/20 08:38:35
Instrument Used : ICPMS-2030
Running On :
Batch Date : 03/06/20 08:49:19

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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Jorge Segredo
 Lab Director

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 PJLA-Testing 97164


 Signature

03/11/20

Signed On