



Certificate of Analysis

Feb 10, 2020 | CURALEAF FLORIDA LLC

19000 SW 192 STREET
MIAMI, FL, 33187, US



Sample: DA00205016-004
Harvest/Lot ID: HS-TETH0130202002
Cultivation Facility: Miami Cultivation
Processing Facility: Homestead Processing
Seed to Sale #6490 7063 5633 7347
Batch Date :01/30/20
Batch#: HS-TETH0130202002
Sample Size Received: 7 gram
Total Weight/Volume: 350 gram
Retail Product Size: 1.0 gram gram
Ordered : 02/05/20
sampled : 02/05/20
Completed: 02/10/20
Sampling Method: SOP Client Method

PASSED

Page 1 of 5

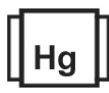
PRODUCT IMAGE



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

CANNABINOID RESULTS



Total THC

74.225%

THC/Container :742.25 mg



Total CBD

0.289%

CBD/Container :2.89 mg



Total Cannabinoids

88.287%

Total Cannabinoids / Container
:0.000

	TOTAL CA	TOTAL CB	TOTAL TH	CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
%	88.2870	0.2890	74.2250	ND	3.1460	0.5410	ND	ND	ND	ND	0.2829	0.0410	2.5640	81.7120
mg/g	882.8700	2.8889	742.2500	ND	31.4600	5.4100	ND	ND	ND	ND	2.8300	0.4100	25.6400	817.1200
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	Extracted By
584	1g	02/05/20	584
Analyte			Result
Filtration and Foreign Material			ND
			Batch Date : 02/05/20 14:06:36

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-28/T Stereomicroscope is used for inspection.

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
1224	0.1041g	02/05/20 02:02:43	965
Analysis Method	Instrument Used	Batch Date	
-SOP.T.40.020, SOP.T.30.050	DA-LC-003	02/05/20 12:54:18	
Analytical Batch -DA010015POT			

Reagent	Dilution	Consumers. ID
020420.R12	400	181205
012120.34		SFN-BX-1025
020320.R09		849CA-849AK
020320.R10		840CB-840H

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).

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation. The result >99% are variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

Jorge Segredo
Lab Director

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


Signature

02/10/20

Signed On



Certificate of Analysis

PASSED

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

Sample : DA00205016-004
Harvest/LOT ID: HS-TETH0130202002

Batch# : HS-TETH0130202002
Sampled : 02/05/20
Ordered : 02/05/20

Sample Size Received : 7 gram
Total Weight/Volume : 350 gram
Completed : 02/10/20 **Expires:** 02/10/21
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		EUCALYPTOL	0.007	0.300	0.030	
ALPHA-HUMULENE	0.007	4.130	0.413		ISOBORNEOL	0.007	< 0.2	< 0.020	
ALPHA-PINENE	0.007	ND	ND		HEXAHYDROTHYMOL	0.007	ND	ND	
ALPHA-TERPINENE	0.007	ND	ND		FENCHYL ALCOHOL	0.007	< 0.2	< 0.020	
BETA-MYRCENE	0.007	0.359	0.035		3-CARENE	0.007	ND	ND	
BETA-PINENE	0.007	< 0.2	< 0.020		CIS-NEROLIDOL	0.007	ND	ND	
BORNEOL	0.013	< 0.4	< 0.040		ISOPULEGOL	0.007	ND	ND	
CAMPHENE	0.007	ND	ND						
CAMPHOR	0.013	0.494	0.049						
CARYOPHYLLENE OXIDE	0.007	0.600	0.060						
CEDROL	0.007	ND	ND						
ALPHA-BISABOLOL	0.007	2.448	0.244						
SABINENE	0.007	ND	ND						
SABINENE HYDRATE	0.007	ND	ND						
TERPINEOL	0.007	0.602	0.060						
TERPINOLENE	0.007	ND	ND						
BETA-CARYOPHYLLENE	0.007	17.060	1.706						
TRANS-NEROLIDOL	0.007	1.120	0.112						
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	1.615	0.161						
LIMONENE	0.007	0.982	0.098						
GUAJOL	0.007	< 0.2	< 0.020						
GERANYL ACETATE	0.007	ND	ND						
GERANIOL	0.007	< 0.2	< 0.020						
GAMMA-TERPINENE	0.007	ND	ND						
FENCHONE	0.007	< 0.2	< 0.020						
FARNESENE	0.007	57.003	5.700						
Total (%)		8.672							



Terpenes

TESTED
Analyzed by 1351 **Weight** 0.9605g **Extraction date** 02/05/20 02:02:48 **Extracted By** 1351

Analysis Method -SOP.T.40.090
Analytical Batch -DA009992TER
Instrument Used : Liquid Injection GCMS QP2010
Running On :
Batch Date : 02/05/20 09:11:14

Reagent	Dilution	Consums. ID
052119.04	10	180711 1929V5454

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.



Certificate of Analysis

PASSED

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

Sample : DA00205016-004
Harvest/LOT ID: HS-TETH0130202002

Batch# : HS-TETH0130202002
Sampled : 02/05/20
Ordered : 02/05/20

Sample Size Received : 7 gram
Total Weight/Volume : 350 gram
Completed : 02/10/20 **Expires:** 02/10/21
Sample Method : SOP Client Method

Page 3 of 5



Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.02	ppm	0.1	ND	PHOSMET	0.01	ppm	0.1	ND
ACEPHATE	0.001	ppm	0.1	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
ACEQUINOCYL	0.01	ppm	0.1	ND	PRALLETHRIN	0.05	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	0.1	ND	PROPICONAZOLE	0.01	ppm	0.1	ND
ALDICARB	0.02	ppm	0.1	ND	PROPOXUR	0.01	ppm	0.1	ND
AZOXYSTROBIN	0.01	ppm	0.1	ND	PYRETHRINS	0.01	ppm	0.5	ND
BIFENAZATE	0.01	ppm	0.1	ND	PYRIDABEN	0.01	ppm	0.2	ND
BIFENTHRIN	0.01	ppm	0.1	ND	SPINETORAM	0.01	PPM	0.2	ND
BOSCALID	0.01	PPM	0.1	ND	SPIROMESIFEN	0.01	ppm	0.1	ND
CAPTAN	0.05	ppm	0.7	ND	SPIROTETRAMAT	0.02	ppm	0.1	ND
CARBARYL	0.01	ppm	0.5	ND	SPIROXAMINE	0.01	ppm	0.1	ND
CARBOFURAN	0.01	ppm	0.1	ND	TEBUCONAZOLE	0.01	ppm	0.1	ND
CHLORANTRANILIPROLE	0.01	ppm	1	ND	THIACLOPRID	0.01	ppm	0.1	ND
CHLORDANE	0.005	ppm	0.1	ND	THIAMETHOXAM	0.01	ppm	0.5	ND
CHLORFENAPYR	0.01	ppm	0.1	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.1	PPM	5	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	TOTAL PERMETHRIN	1	ppm	0.1	ND
CLOFENTEZINE	0.01	ppm	0.2	ND	TOTAL SPINOSAD	1	ppm	0.1	ND
COUMAPHOS	0.005	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	0.1	ND
CYPERMETHRIN	0.01	ppm	0.5	ND					
DAMINOZIDE	0.02	ppm	0.1	ND					
DIAZANON	0.01	ppm	0.1	ND					
DICHLORVOS	0.05	ppm	0.1	ND					
DIMETHOATE	0.01	ppm	0.1	ND					
DIMETHOMORPH	0.005	ppm	0.2	ND					
ETHOPROPHOS	0.01	ppm	0.1	ND					
ETOFENPROX	0.01	ppm	0.1	ND					
ETOXAZOLE	0.01	ppm	0.1	ND					
FENHEXAMID	0.01	ppm	0.1	ND					
FENOXYCARB	0.01	ppm	0.1	ND					
FENPYROXIMATE	0.01	ppm	0.1	ND					
FIPRONIL	0.02	ppm	0.1	ND					
FLONICAMID	0.01	ppm	0.1	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					
KRESOXIM-METHYL	0.01	ppm	0.1	ND					
MALATHION	0.01	ppm	0.2	ND					
METALAXYL	0.01	ppm	0.1	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	0.1	ND					
NALED	0.01	ppm	0.25	ND					
OXAMYL	0.01	ppm	0.5	ND					
PACLOBUTRAZOL	0.01	ppm	0.1	ND					



Pesticides

PASSED
Analyzed by 585 **Weight** 0.8300g **Extraction date** 02/05/20 03:02:17 **Extracted By** 585

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 : DA010010PES

Instrument Used : DA-LCMS-001_DER

Running On :
Batch Date : 02/05/20 12:19:56

Reagent

 111219-30
 020520-809
 020420-802

Dilution

10

Consums. ID

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. * 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.

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation. The result >99% are variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

Jorge Segredo
 Lab Director

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



Signature

02/10/20

Signed On



Certificate of Analysis

PASSED

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

Sample : DA00205016-004
Harvest/LOT ID: HS-TETH0130202002

Batch# : HS-TETH0130202002
Sampled : 02/05/20
Ordered : 02/05/20

Sample Size Received : 7 gram
Total Weight/Volume : 350 gram
Completed : 02/10/20 **Expires:** 02/10/21
Sample Method : SOP Client Method

Page 4 of 5

	Residual Solvents	PASSED
--	--------------------------	---------------

	Residual Solvents	PASSED
---	--------------------------	---------------

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	1933.295
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 0.0247g	Extraction date 02/05/20 03:02:32	Extracted By 850
---------------------------	--------------------------	---	----------------------------

Analysis Method -SOP.T.40.032
Analytical Batch -DA009985SOL
Instrument Used : Headspace GCMS
Running On :
Batch Date : 02/04/20 17:48:09

Reagent	Dilution	Consums. ID
	1	00268767 160861-1 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).



Certificate of Analysis

PASSED

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

Sample : DA00205016-004
Harvest/LOT ID: HS-TETH0130202002

Batch# : HS-TETH0130202002
Sampled : 02/05/20
Ordered : 02/05/20

Sample Size Received : 7 gram
Total Weight/Volume : 350 gram
Completed : 02/10/20 **Expires:** 02/10/21
Sample Method : SOP Client Method

Page 5 of 5

	Microbials	PASSED
--	-------------------	---------------

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.	
STAPHYLOCOCCUS_AUREUS		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 -DA010082MIC **Batch Date :** 02/05/20, 02/05/20
Instrument Used : PathogenDX PCR_Array Scanner, PathogenDX PCR_Array Scanner
Running On :

Analyzed by	Weight	Extraction date	Extracted By
513,	0.9153g	02/07/20	513,

Reagent	Reagent	Consums. ID	Consums. ID
122719.101	122719.59	181019-274	50AX26219
122719.81	122719.29	SG298A	19323
013120.31		181207119C	23819111
122719.127		918C4	104867-12
122719.113		923C4-923AK	190611634
122719.54		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
---	-------------------	---------------

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

Analysis Method -SOP.T.30.065, SOP.T.40.065
Analytical Batch -DA010011
Instrument Used : DA-LCMS-001_DER
Running On :
Batch Date : 02/05/20 12:21:03

Analyzed by	Weight	Extraction date	Extracted By
585	1g	02/05/20 05:02:39	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
---	---------------------	---------------

Reagent	Reagent	Dilution
020320.R22 020520.R02 012920.R05 012920.R03 020520.R01 111319.01	012920.R01	50

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.01	PPM	ND	0.2
CADMIUM	0.01	PPM	ND	0.2
LEAD	0.01	PPM	ND	0.5
MERCURY	0.01	PPM	ND	0.2

Analyzed by	Weight	Extraction date	Extracted By
457	0.2660g	02/05/20 03:02:21	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA010018HEA
Instrument Used : ICPMS-2030
Running On :
Batch Date : 02/05/20 13:23:48

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.

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation. The result >99% are variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

Jorge Segredo
 Lab Director

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


 Signature

02/10/20

Signed On