



Certificate of Analysis

Sample: DA91023013-004
Harvest/Lot ID: HS-TETH1014201902
Cultivation Facility: Miami Cultivation
Processing Facility : Homestead Processing
Seed to Sale #3052 5943 1712 3177
Batch Date :N/A
Batch#: HS-TETH1014201902
Sample Size Received: 7.0 gram
Total Weight/Volume: 400 gram
Retail Product Size: 1.0 gram gram
Ordered : 10/23/19
sampled : 10/23/19
Completed: 01/16/20
Sampling Method: SOP Client Method

Jan 16, 2020 | CURALEAF FLORIDA LLC

19000 SW 192 STREET
MIAMI, FL, 33187, US



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

MISC.

CANNABINOID RESULTS



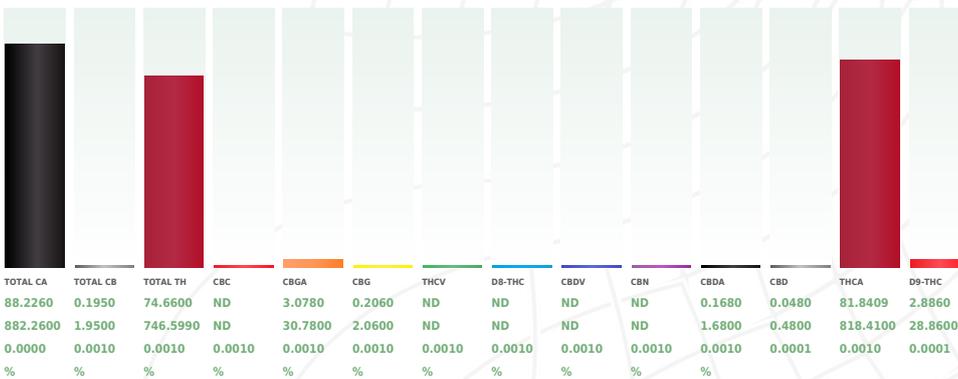
Total THC
74.660%
THC/Container :746.61 mg



Total CBD
0.195%
CBD/Container :1.95 mg



Total Cannabinoids
88.226%
Total Cannabinoids / Container :0.000



Filtration PASSED

Analyzed By: 584	Weight: 1g	Extraction date: 10/23/19	Extracted By: 584
Analyte: Filth and Foreign Material			Result: ND
			LOD: 0
			Batch Date: 10/23/19 15:08:11

Analysis Method -SOP.T.40.013
Analytical Batch -DA007407
Instrument Used :

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-26/T Stereo Microscope is used for inspection.

Cannabinoid Profile Test

Analyzed by: 450 Weight: 0.1065g Extraction date: 10/23/19 12:10:14 Extracted By: 574
Analysis Method -SOP.T.40.020, SOP.T.30.050 Instrument Used : DA-LC-003 Batch Date : 10/23/19 09:24:50
Analytical Batch -DA007382

Reagent Dilution Consums. ID

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

01/16/20

Signed On



Certificate of Analysis

PASSED

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

Sample : DA91023013-004
Harvest/LOT ID: HS-TETH1014201902

Batch# : HS-TETH1014201902
Sampled : 10/23/19
Ordered : 10/23/19

Sample Size Received : 7.0 gram
Total Weight/Volume : 400 gram
Completed : 01/16/20 Expires: 01/16/21
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		SABINENE	0.007	ND	ND	
ALPHA-HUMULENE	0.007	4.106	0.410		SABINENE HYDRATE	0.007	ND	ND	
ALPHA-PINENE	0.007	< 0.2	< 0.020		TERPINEOL	0.007	1.939	0.193	
ALPHA-TERPINENE	0.007	ND	ND		TERPINOLENE	0.007	< 0.2	< 0.020	
BETA-MYRCENE	0.007	1.650	0.165		BETA-CARYOPHYLLENE	0.007	ND	ND	
BETA-PINENE	0.007	0.269	0.026		TRANS-NEROLIDOL	0.007	1.450	0.145	
BORNEOL	0.013	0.683	0.068		VALENCENE	0.007	ND	ND	
CAMPHENE	0.007	ND	ND						
CAMPHOR	0.013	< 0.4	< 0.040						
CARYOPHYLLENE OXIDE	0.007	0.313	0.031						
CEDROL	0.007	ND	ND						
ALPHA-BISABOLOL	0.007	6.051	0.605						
ISOPULEGOL	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
3-CARENE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	2.087	0.208						
HEXAHYDROTHYMOL	0.007	ND	ND						
EUCALYPTOL	0.007	ND	ND						
ISOBORNEOL	0.007	ND	ND						
FARNESENE	0.007	10.871	1.087						
FENCHONE	0.007	< 0.2	< 0.020						
GAMMA-TERPINENE	0.007	ND	ND						
GERANIOL	0.007	< 0.2	< 0.020						
GERANYL ACETATE	0.007	ND	ND						
GUAJOL	0.007	5.918	0.591						
LIMONENE	0.007	2.618	0.261						
LINALOOL	0.007	5.745	0.574						
NEROL	0.007	ND	ND						
OCIMENE	0.007	< 0.2	< 0.020						
ALPHA-PHELLANDRENE	0.007	ND	ND						
PULEGONE	0.007	ND	ND						
Total (%)		4.370							



Terpenes

TESTED

Analyzed by: 585 Weight: 0.9699g Extraction date: 10/23/19 06:10:20 Extracted By: 585

Analysis Method -SOP.T.40.090
Analytical Batch -DA007375
Instrument Used : Liquid Injection GCMS QP2020 (E-SHI-128)
Running On :
Batch Date : 10/23/19 08:03:47

Reagent	Dilution	Consums. ID
	10	

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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Jorge Segredo
Lab Director

Signature

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

Sample : DA91023013-004
Harvest/LOT ID: HS-TETH1014201902

Batch# : HS-TETH1014201902
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Sample Method : SOP Client Method

Page 3 of 5



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	0.7	ND	PACLOBUTRAZOL	0.01	ppm	0.1	ND
BOSCALID	0.01	PPM	0.1	ND	TRANS-PERMETHRIN	0.05	ppm	0.1	ND
DIMETHOATE	0.01	ppm	0.1	ND	PHOSMET	0.01	ppm	0.1	ND
AZOXYSTROBIN	0.01	ppm	0.01	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
ABAMECTIN B1A	0.02	ppm	0.1	ND	PRALLETHRIN	0.05	ppm	0.1	ND
CIS-PERMETHRIN	0.05	ppm	0.1	ND	PROPICONAZOLE	0.01	ppm	0.1	ND
SPINETORAM	0.01	PPM	0.2	ND	PROPOXUR	0.01	ppm	0.1	ND
ACEPHATE	0.001	ppm	0.1	ND	PYRETHRIN I	0.01	ppm	0.5	ND
FENOXYCARB	0.01	ppm	0.1	ND	PYRIDABEN	0.01	ppm	0.2	ND
DIMETHOMORPH	0.005	ppm	0.2	ND	SPINOSAD (SPINOSYN A)	0.01	ppm	0.1	ND
BIFENAZATE	0.01	ppm	0.1	ND	SPINOSAD (SPINOSYN D)	0.01	ppm	0.1	ND
ETHOPROPHOS	0.01	ppm	0.1	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
ETOFENPROX	0.01	ppm	0.1	ND	TEBUCONAZOLE	0.01	ppm	0.1	ND
BIFENTHRIN	0.01	ppm	0.1	ND	THIACLOPRID	0.01	ppm	0.1	ND
ALDICARB	0.02	ppm	0.1	ND	THIAMETHOXAM	0.01	ppm	0.5	ND
ETOXAZOLE	0.01	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	0.1	ND
FENPYROXIMATE	0.01	ppm	0.1	ND					
FIPRONIL	0.02	ppm	0.1	ND					
FENHEXAMID	0.01	ppm	0.1	ND					
CARBARYL	0.01	ppm	0.5	ND					
CARBOFURAN	0.01	ppm	0.1	ND					
FLONICAMID	0.01	ppm	0.1	ND					
FLUDIOXONIL	0.01	ppm	0.1	ND					
CHLORFENAPYR	0.01	ppm	0.1	ND					
CHLORANTRANILIPROLE	0.01	ppm	1	ND					
HEXYTHIAZOX	0.01	ppm	0.1	ND					
CHLORPYRIFOS	0.01	ppm	0.1	ND					
IMAZALIL	0.01	ppm	0.1	ND					
MALATHION	0.01	ppm	0.2	ND					
CLOFENTEZINE	0.01	ppm	0.2	ND					
DAMINOZIDE	0.02	ppm	0.1	ND					
IMIDACLOPRID	0.01	ppm	0.4	ND					
METALAXYL	0.01	ppm	0.02	ND					
DICHLORVOS	0.05	ppm	0.1	ND					
METHIOCARB	0.01	ppm	0.05	ND					
COUMAPHOS	0.005	ppm	0.1	ND					
METHOMYL	0.01	ppm	0.1	ND					
KRESOXIM-METHYL	0.01	ppm	0.1	ND					
DIAZANON	0.01	ppm	0.1	ND					
CYPERMETHRIN	0.01	ppm	0.5	ND					
MEVINPHOS	0.01	ppm	0.1	ND					
MYCLOBUTANIL	0.01	ppm	0.1	ND					
NALED	0.01	ppm	0.25	ND					



Pesticides

PASSED

Analyzed by 53	Weight 1.0923g	Extraction date 10/24/19 04:10:17	Extracted By 1082
<small>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</small>			
<small>Analytical Batch - DA007427</small>			
<small>Instrument Used : LCMS E-SHI-039</small>			
<small>Running On : Batch Date : 10/24/19 11:09:22</small>			

Reagent	Dilution	Consums. ID
	10	180711 280650586

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

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Email: erick.ramirez@curaleaf.com

Sample : DA91023013-004
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Batch# : HS-TETH1014201902
Sampled : 10/23/19
Ordered : 10/23/19

Sample Size Received : 7.0 gram
Total Weight/Volume : 400 gram
Completed : 01/16/20 Expires: 01/16/21
Sample Method : SOP Client Method

Page 4 of 5



Residual Solvents

PASSED



Residual Solvents

PASSED

Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
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	1854.396
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	<140.000
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: 0.0260g Extraction date: 10/23/19 03:10:31 Extracted By: 850

Analysis Method -SOP.T.40.032
Analytical Batch -DA007410
Instrument Used : Headspace GCMS
Running On :
Batch Date : 10/23/19 15:34:04

Reagent	Dilution	Consums. ID
	1	00268767 160861-1 24151941

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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Jorge Segredo
Lab Director



Signature

01/16/20

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Signed On



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PASSED

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

Sample : DA91023013-004
Harvest/LOT ID: HS-TETH1014201902
Batch# : HS-TETH1014201902
Sampled : 10/23/19
Ordered : 10/23/19

Sample Size Received : 7.0 gram
Total Weight/Volume : 400 gram
Completed : 01/16/20 Expires: 01/16/21
Sample Method : SOP Client Method

Page 5 of 5



Microbials
PASSED



Mycotoxins
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.	

Analysis Method -SOP.T.40.043 / SOP.T.40.044 / SOP.T.40.041
Analytical Batch -DA007392 Batch Date : 10/23/19
Instrument Used : PathogenDX PCR_Array Scanner
Running On :

Analyzed by	Weight	Extraction date	Extracted By
513	1.0039g	10/23/19	1082

Reagent	Consums. ID
102319.R01	013 2803021 A02 009D 019 011

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.

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 -DA007429
Instrument Used : LCMS E-SHI-039
Running On :
Batch Date : 10/24/19 11:09:41

Analyzed by	Weight	Extraction date	Extracted By
53	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

Dilution

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	0.1

Analyzed by	Weight	Extraction date	Extracted By
457	0.5199g	10/24/19 09:10:05	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA007415
Instrument Used : ICPMS-2030
Running On :
Batch Date : 10/24/19 08:41:59

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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