



Certificate of Analysis

Sample: DA00204016-008
Harvest/Lot ID: HS-TCF0204202001
Cultivation Facility: Miami Cultivation
Processing Facility : Homestead Processing
Seed to Sale #5258 5383 8477 9159
Batch Date :02/04/20
Batch#: HS-TCF0204202001
Sample Size Received: 30 units
Total Weight/Volume: 21000 units
Retail Product Size: 10 mg gram
Ordered : 02/04/20
sampled : 02/04/20
Completed: 02/06/20
Sampling Method: SOP Client Method

Feb 06, 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



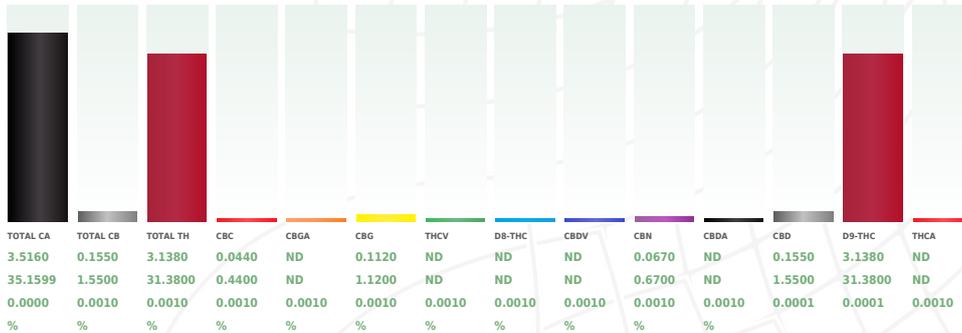
Total THC
3.138%
THC/Capsule :10.69 mg



Total CBD
0.155%
CBD/Capsule :0.53 mg



Total Cannabinoids
3.516%
Total Cannabinoids / Container :0.000



Filtration		PASSED	
Analyzed By	584	Extraction date	02/04/20
Analyte	Filtration and Foreign Material	LOD	0
Analysis Method	-SOP.T.40.013	Batch Date	02/04/20 15:58:04
Analytical Batch	-DA009980FIL	Result	ND
Instrument Used			

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	1.0261g	02/04/20 01:02:25	965
Analysis Method -SOP.T.40.020, SOP.T.30.050	Instrument Used : DA-LC-003	Batch Date : 02/04/20 12:22:49	
Analytical Batch -DA009972POT			

Reagent	Dilution	Consums. ID
123019.R09	400	181205
011020.R11		SPN-BX-1025
020320.R09		849CA-849AK
020320.R10		840CE-840EH

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



02/06/20

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

Signature

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PASSED

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

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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	< 0.2	< 0.020		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	ND	ND		3-CARENE	0.007	ND	ND	
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	0.313	0.031						
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						
GUAJOL	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 (%)		0.031							



Terpenes

TESTED

Analyzed by **1351** Weight **0.9908g** Extraction date **02/04/20 03:02:28** Extracted By **1351**

Analysis Method -SOP.T.40.090
Analytical Batch -DA009953TER
Instrument Used : Liquid Injection GCMS QP2010
Running On :
Batch Date : 02/04/20 07:55:31

Reagent	Dilution	Consums. ID
052119.04	10	180711 280630187

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



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02/06/20

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Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.02	ppm	0.3	ND	PHOSMET	0.01	ppm	0.2	ND
ACEPHATE	0.001	ppm	3	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
ACEQUINOCYL	0.01	ppm	2	ND	PRALLETHRIN	0.05	ppm	0.4	ND
ACETAMIPRID	0.01	ppm	3	ND	PROPICONAZOLE	0.01	ppm	1	ND
ALDICARB	0.02	ppm	0.1	ND	PROPOXUR	0.01	ppm	0.1	ND
AZOXYSTROBIN	0.01	ppm	3	ND	PYRETHRINS	0.01	ppm	1	ND
BIFENAZATE	0.01	ppm	3	ND	PYRIDABEN	0.01	ppm	3	ND
BIFENTHRIN	0.01	ppm	0.5	ND	SPINETORAM	0.01	PPM	3	ND
BOSCALID	0.01	PPM	3	ND	SPIROMESIFEN	0.01	ppm	3	ND
CAPTAN	0.05	ppm	3	ND	SPIROTETRAMAT	0.02	ppm	3	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	1	ND
CHLORANTRANILIPROLE	0.01	ppm	3	ND	THIACLOPRID	0.01	ppm	0.1	ND
CHLORDANE	0.005	ppm	0.1	ND	THIAMETHOXAM	0.01	ppm	1	ND
CHLORFENAPYR	0.01	ppm	0.1	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.1	PPM	20	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	TOTAL PERMETHRIN	1	ppm	1	ND
CLOFENTEZINE	0.01	ppm	0.5	ND	TOTAL SPINOSAD	1	ppm	3	ND
COUMAPHOS	0.005	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
CYPERMETHRIN	0.01	ppm	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					
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					



Pesticides

PASSED

Analyzed by 585 <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 - DA009973PES</small> <small>Instrument Used : DA-LCMS-001_DER</small> <small>Running On :</small>	Weight 1.0651g	Extraction date 02/04/20 01:02:03	Extracted By 585 <small>Batch Date : 02/04/20 12:28:00</small>
Reagent <small>111019.30</small> <small>013020.813</small> <small>020420.802</small>	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.
 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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Sample Method : SOP Client Method

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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	1038.926
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	<24.600
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 0.0212g Extraction date 02/04/20 05:02:35 Extracted By 850

Analysis Method -SOP.T.40.032
Analytical Batch -DA009984SOL
Instrument Used : Headspace GCMS
Running On :
Batch Date : 02/04/20 17:33:59

Reagent	Dilution	Consums. ID
	1	161040-1 24151940 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).

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Jorge Segredo
Lab Director



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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.	
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 -DA009962MIC Batch Date : 02/04/20, 02/04/20
Instrument Used : PathogenDX PCR_Array Scanner,PathogenDX PCR_NEW MINI AMP
DA-089, PathogenDX PCR_Array Scanner
Running On :

Analyzed by	Weight	Extraction date	Extracted By
513,	1.1175g	02/04/20	357,

Reagent	Consums. ID	Consums. ID
020320.R20	181019-274	19323
122719.116	181207119C	23819111
013120.65	849C4-849AK	104867-12
	918C4	190611634
	929C6-929H	
	50AX30819	

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	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 -DA009974
Instrument Used : DA-LCMS-001_DER
Running On :
Batch Date : 02/04/20 12:28:59

Analyzed by	Weight	Extraction date	Extracted By
585	1g	02/04/20 04:02:22	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	012920.R02	50
020420.R03	111319.01	
012920.R05	012920.R01	
012920.R06		
012920.R07		
012920.R03		

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.01	PPM	ND	1.5
CADMIUM	0.01	PPM	ND	0.5
LEAD	0.01	PPM	ND	0.5
MERCURY	0.01	PPM	ND	3

Analyzed by	Weight	Extraction date	Extracted By
457	0.2573g	02/04/20 01:02:41	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA009976HEA
Instrument Used : ICPMS-2030
Running On :
Batch Date : 02/04/20 13:02:46

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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