



Certificate of Analysis

Sample: DA90912011-002
Harvest/Lot ID: TSV0912201901
Cultivation Facility: Miami Cultivation
Processing Facility: Homestead Processing
Seed to Sale #9540 8227 4242 5830
Batch Date :N/A
Batch#: TSV0912201901
Sample Size Received: 8 gram
Total Weight/Volume: 8 gram
Retail Product Size: 0.5 ml gram
Ordered : 09/12/19
sampled : 09/12/19
Completed: 09/20/19
Sampling Method: SOP Client Method

Sep 20, 2019 | 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



Filt
PASSED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
TESTED

MISC.

CANNABINOID RESULTS



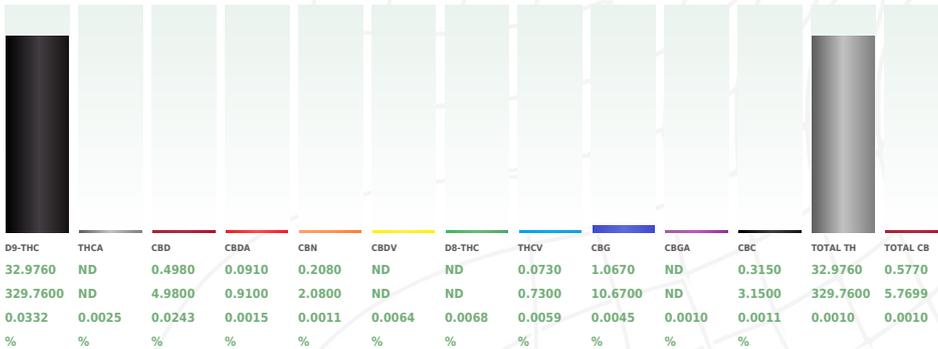
Total THC
32.976%
THC/Container :164.88 mg



Total CBD
0.577%
CBD/Container :2.89 mg



Total Cannabinoids
0.000%
Total Cannabinoids / Container :0.000



Filt PASSED

Analyzed By: 584
Weight: 1g
Extraction date: 09/13/19
Extracted By: 584
Analyte: LOD 0 Result ND
Filt and Foreign Material
Analysis Method -SOP.T.40.013
Analytical Batch -DA006322
Instrument Used :
Batch Date :

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

Cannabinoid Profile Test

Analyzed by: 372
Weight: 0.1196g
Extraction date: 09/12/19 05:09:33
Extracted By: 574
Analysis Method -SOP.T.40.020, SOP.T.30.050
Analytical Batch -DA006296
Instrument Used :

Reagent	Dilution	Consums. ID
091119.R05	400	76124-662
091119.R04		SFM-BK-1025
091119.R07		923C4-923AK
091019.R01		910C6-910H

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



Signature

09/20/19

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

Signed On



Certificate of Analysis

PASSED

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

Sample : DA90912011-002
Harvest/LOT ID: TSV0912201901

Batch# : TSV0912201901
Sampled : 09/12/19
Ordered : 09/12/19

Sample Size Received : 8 gram
Total Weight/Volume : 8 gram
Completed : 09/20/19 Expires: 09/20/20
Sample Method : SOP Client Method

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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	ND	ND		SABINENE HYDRATE	0.007	ND	ND	
ALPHA-PINENE	0.007	ND	ND		TERPINEOL	0.007	ND	ND	
ALPHA-TERPINENE	0.007	ND	ND		TERPINOLENE	0.007	ND	ND	
BETA-MYRCENE	0.007	ND	ND		TRANS-CARYOPHYLLENE	0.007	ND	ND	
BETA-PINENE	0.007	ND	ND		TRANS-NEROLIDOL	0.007	ND	ND	
BORNEOL	0.013	ND	ND		VALENCENE	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						
ISOPULEGOL	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
3-CARENE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	ND	ND						
HEXAHYDROTHYMOL	0.007	ND	ND						
EUCALYPTOL	0.007	ND	ND						
ISOBORNEOL	0.007	ND	ND						
FARNESENE	0.007	ND	ND						
FENCHONE	0.007	ND	ND						
GAMMA-TERPINENE	0.007	ND	ND						
GERANIOL	0.007	ND	ND						
GERANYL ACETATE	0.007	ND	ND						
GUAJOL	0.007	ND	ND						
LIMONENE	0.007	ND	ND						
LINALOOL	0.007	ND	ND						
NEROL	0.007	ND	ND						
OCIMENE	0.007	ND	ND						
ALPHA-PHELLANDRENE	0.007	ND	ND						
PULEGONE	0.007	ND	ND						
Total (%)		0.000							



Terpenes

TESTED

Analyzed by 585 Weight 1.0813g Extraction date 09/12/19 06:09:22 Extracted By 585

Analysis Method -SOP.T.40.090
Analytical Batch -DA006291
Instrument Used :
Running On :
Batch Date :

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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Lab Director



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Telephone: 7865860672
Email: erick.ramirez@curaleaf.com

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Harvest/LOT ID: TSV0912201901

Batch # : TSV0912201901
Sampled : 09/12/19
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Total Weight/Volume : 8 gram
Completed : 09/20/19 Expires: 09/20/20
Sample Method : SOP Client Method

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Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
DIMETHOATE	0.01	ppm	0.05	ND	PACLOBUTRAZOL	0.01	ppm	0.05	ND
ABAMECTIN B1A	0.02	ppm	0.1	ND	TRANS-PERMETHRIN	0.05	ppm	0.1	ND
PENTACHLORONITROBENZENE	0.005	ppm	0.2	ND	PHOSMET	0.01	ppm	0.1	ND
METHYL PARATHION	0.005	ppm	0.2	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
CYFLUTHRIN	0.025	ppm	1	ND	PRALLETHRIN	0.05	ppm	0.1	ND
CIS-PERMETHRIN	0.05	ppm	0.1	ND	PROPICONAZOLE	0.01	ppm	0.1	ND
ACEPHATE	0.001	ppm	0.1	ND	PROPOXUR	0.01	ppm	0.1	ND
DIMETHOMORPH	0.005	ppm	0.05	ND	PYRETHRIN I	0.01	ppm	0.5	ND
ETHOPROPHOS	0.01	ppm	0.05	ND	PYRIDABEN	0.01	ppm	0.2	ND
ACEQUINOCYL	0.01	ppm	0.1	ND	SPINOSAD (SPINOSYN A)	0.01	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	0.05	ND	SPINOSAD (SPINOSYN D)	0.01	ppm	0.1	ND
ETOFENPROX	0.01	ppm	0.05	ND	SPIROMESIFEN	0.01	ppm	0.1	ND
ALDICARB	0.02	ppm	0.05	ND	SPIROTETRAMAT	0.02	ppm	0.1	ND
ETOXAZOLE	0.01	ppm	0.05	ND	SPIROXAMINE	0.01	ppm	0.05	ND
AZOXYSTROBIN	0.01	ppm	0.05	ND	TEBUCONAZOLE	0.01	ppm	0.05	ND
FENHEXAMID	0.01	ppm	0.1	ND	THIACLOPRID	0.01	ppm	0.05	ND
BIFENAZATE	0.01	ppm	0.1	ND	THIAMETHOXAM	0.01	ppm	0.05	ND
FENOXYCARB	0.01	ppm	0.05	ND	TRIFLOXYSTROBIN	0.01	ppm	0.1	ND
FENPYROXIMATE	0.01	ppm	0.5	ND					
BIFENTHRIN	0.01	ppm	0.1	ND					
CARBARYL	0.01	ppm		ND					
FIPRONIL	0.02	ppm	0.05	ND					
FLONICAMID	0.01	ppm	0.4	ND					
CARBOFURAN	0.01	ppm		ND					
CHLORANTRANILIPROLE	0.01	ppm		ND					
FLUDIOXONIL	0.01	ppm	0.1	ND					
HEXYTHIAZOX	0.01	ppm	0.25	ND					
CHLORFENAPYR	0.01	ppm	0.05	ND					
IMAZALIL	0.01	ppm	0.05	ND					
CHLORPYRIFOS	0.01	ppm	0.1	ND					
IMIDACLOPRID	0.01	ppm	0.1	ND					
CLOFENTEZINE	0.01	ppm	0.2	ND					
KRESOXIM-METHYL	0.01	ppm	0.1	ND					
COUMAPHOS	0.005	ppm	0.05	ND					
MALATHION	0.01	ppm	0.05	ND					
CYPERMETHRIN	0.01	ppm	0.5	ND					
DAMINOZIDE	0.01	ppm	0.5	ND					
METALAXYL	0.01	ppm	0.05	ND					
DICHLORVOS	0.05	ppm	0.1	ND					
METHIOCARB	0.01	ppm	0.05	ND					
METHOMYL	0.01	ppm	0.1	ND					
DIAZANON	0.01	ppm	0.05	ND					
MEVINPHOS	0.01	ppm	0.05	ND					
MYCLOBUTANIL	0.01	ppm	0.1	ND					
NALED	0.01	ppm	0.25	ND					
OXAMYL	0.01	ppm	0.25	ND					



Pesticides

PASSED

Analyzed by 56	Weight 1g	Extraction date NA	Extracted By NA
<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 - DA006302</small>			
<small>Instrument Used :</small>			
<small>Running On :</small>			
<small>Batch Date :</small>			

Reagent	Dilution	Consums. ID
<small>090619.51</small>	10	76124-662
<small>091219.802</small>		280653964
<small>091219.803</small>		

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



Signature

09/20/19

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Certificate of Analysis

PASSED

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

Sample : DA90912011-002
Harvest/LOT ID: TSV0912201901
Batch# : TSV0912201901
Sampled : 09/12/19
Ordered : 09/12/19

Sample Size Received : 8 gram
Total Weight/Volume : 8 gram
Completed : 09/20/19 Expires: 09/20/20
Sample Method : SOP Client Method

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Residual Solvents

PASSED

Residual Solvents

PASSED

Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
1,1-DICHLOROETHENE	0.2	ppm	8	PASS	ND
1,4-DIOXANE	22.8	ppm		PASS	ND
2-BUTANOL	140	ppm		PASS	ND
2-ETHOXYETHANOL	9.6	ppm		PASS	ND
2-PROPANOL	140	ppm	500	PASS	ND
ACETONE	140	ppm	750	PASS	ND
ACETONITRILE	6	ppm	60	PASS	ND
BENZENE	0.1	ppm	1	PASS	ND
BUTANES (ISO-BUTANE)	50	ppm	2000	PASS	ND
BUTANES (N-BUTANE)	50	ppm	2000	PASS	ND
CHLOROFORM	0.2	ppm	2	PASS	ND
ETHANOL	140	ppm	5000	PASS	ND
ETHYL ACETATE	140	ppm	400	PASS	ND
CYCLOHEXANE	232.8	ppm		PASS	ND
DICHLOROMETHANE	36	ppm		PASS	ND
ETHYL ETHER	140	ppm	500	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
ETHYLBENZENE	130.2	ppm		PASS	ND
HEPTANE	140	ppm	500	PASS	ND
HEXANES (2,2-DIMETHYLBUTANE)	17.4	ppm	60	PASS	ND
HEXANES (2,3-DIMETHYLBUTANE)	17.4	ppm	60	PASS	ND
HEXANES (2-METHYLPENTANE)	17.4	ppm	60	PASS	ND
HEXANES (3-METHYLPENTANE)	17.4	ppm	60	PASS	ND
ISOPROPYL ACETATE	140	ppm		PASS	ND
METHYLENE CHLORIDE	1	ppm	125	PASS	ND
METHANOL	25	ppm	250	PASS	ND
N-HEXANE	17.4	ppm	60	PASS	ND
PENTANES (ISO-PENTANE)	140	ppm		PASS	ND
PENTANES (N-PENTANE)	50	ppm	750	PASS	ND
PENTANES (NEO-PENTANE)	50	ppm		PASS	ND
PROPANE	10	ppm	2100	PASS	ND
TETRAHYDROFURAN	43.2	ppm		PASS	ND
TOLUENE	15	ppm	150	PASS	ND
TOTAL XYLENES	15	ppm	150	PASS	ND
TRICHLOROETHYLENE	1	ppm		PASS	ND

Analyzed by: 850 Weight: 0.0228g Extraction date: 09/12/19 04:09:45 Extracted By: 850

Analysis Method -SOP.T.40.032
Analytical Batch -DA006319
Instrument Used :
Running On :
Batch Date :

Reagent	Dilution	Consums. ID
	1	00268767 160861-1 24152438

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

09/20/19

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Signed On



Certificate of Analysis

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

Sample : DA90912011-002
Harvest/LOT ID: TSV0912201901
Batch# : TSV0912201901
Sampled : 09/12/19
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Sample Size Received : 8 gram
Total Weight/Volume : 8 gram
Completed : 09/20/19 Expires: 09/20/20
Sample Method : SOP Client Method

Page 5 of 5



Microbials

PASSED



Mycotoxins

PASSED

Analyte	LOD	Result	Action Level (cfu/g)
ASPERGILLUS_TERREUS_1J2		not present in 1 gram.	
ASPERGILLUS_NIGER		not present in 1 gram.	
ASPERGILLUS_FUMIGATUS		not present in 1 gram.	
ASPERGILLUS_FLAVUS		not present in 1 gram.	
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.	
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.	

Analysis Method -SOP.T.40.043 / SOP.T.40.044 / SOP.T.40.041
Analytical Batch -DA006317 Batch Date :
Instrument Used :
Running On :

Analyzed by	Weight	Extraction date	Extracted By
513	1g	09/12/19	513

Reagent	Consums. ID
090619.R02	A01 2803018 013 009A 019 009

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	0.001	ppm	ND	0.02
AFLATOXIN_G1	0.001	ppm	ND	0.02
AFLATOXIN_B2	0.001	ppm	ND	0.02
AFLATOXIN_B1	0.001	ppm	ND	0.02
OCHRATOXIN_A	0.001	ppm	ND	0.02

Analysis Method -SOP.T.30.065, SOP.T.40.065
Analytical Batch -DA006303
Instrument Used :
Running On :
Batch Date :

Analyzed by	Weight	Extraction date	Extracted By
56	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 <20ug/Kg.



Heavy Metals

PASSED

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.0062878	ppm	ND	0.2
CADMIUM	0.0040357	ppm	ND	0.2
LEAD	0.0022993	ppm	ND	0.5
MERCURY	0.0016524	ppm	ND	0.1

Analyzed by	Weight	Extraction date	Extracted By
53	0.5139g	09/12/19 03:09:05	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA006294
Instrument Used :
Running On :
Batch Date :

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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