



Certificate of Analysis

Jan 23, 2020 | Green Roads

601 Fairway Drive Deerfield Beach
Florida, United States 33441


SAMPLE:DA00121011-001

Harvest/Lot ID: M09V01

Seed to Sale #N/A

Batch Date :N/A

Batch#: BMR0076

Sample Size Received: 15

Ordered : 01/17/20

Sampled : 01/17/20

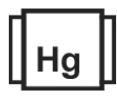
Completed: 01/23/20 Expires: 01/23/21

Sampling Method: SOP Client Method

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

0.000%

THC/Capsule :0.00 mg



Total CBD

4.097%

CBD/Capsule :29.83 mg



Total Cannabinoids

4.108%


CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	THCA	D9-THC
ND	ND	ND	ND	ND	0.011 %	ND	ND	4.097 %	ND	ND
ND	ND	ND	ND	ND	0.110 mg/g	ND	ND	40.970 mg/g	ND	ND
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0001	0.001	0.0001

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
1224	2.1888g	01/22/20	357
Analysis Method -SOP.T.40.020, SOP.T.30.050			
Analytical Batch -DA009601POT		Instrument Used : DA-LC-003	
		Batch Date : 01/21/20	

Reagent	Dilution	Consums. ID
010720.R02		76124-662
070219.R15		SFN-BX-1025
		849C4-849AK
		840C6-840H

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).

Analyte	Weight	Extraction date	LOD	Extracted By
584	1g	01/21/20	584	584

Analysis Method -SOP.T.40.013

Analytical Batch -DA009583FIL

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.

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Jorge Segredo
Lab Director

State License # n/a
ISO Accreditation # 97164



Signature

01/23/2020

Signed On



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Email: aa@forceinvestments.com

Sample : DA00121011-001
Harvest/LOT ID: M09V01

Batch# : BMR0076 **Sample Size received :** 15
Sampled : 01/17/20 **Completed :** 01/23/20 **Expires :** 01/23/21
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Terpenes

TESTED

Terpenes	LOD	TEST RESULT (%)	Terpenes	LOD	TEST RESULT (%)
ALPHA-CEDRENE	0.007	ND	TERPINEOL	0.007	ND
ALPHA-HUMULENE	0.007	ND	TERPINOLENE	0.007	ND
ALPHA-PINENE	0.007	ND	BETA-CARYOPHYLLENE	0.007	ND
ALPHA-TERPINENE	0.007	ND	TRANS-NEROLIDOL	0.007	ND
BETA-MYRCENE	0.007	ND	VALENCENE	0.007	ND
BETA-PINENE	0.007	ND			
BORNEOL	0.013	ND			
CAMPHENE	0.007	ND			
CAMPHOR	0.013	ND			
CARYOPHYLLENE OXIDE	0.007	ND			
CEDROL	0.007	ND			
ALPHA-BISABOLOL	0.007	ND			
ISOPULEGOL	0.007	ND			
CIS-NEROLIDOL	0.007	ND			
3-CARENE	0.007	ND			
FENCHYL ALCOHOL	0.007	ND			
HEXAHYDROTHYMOL	0.007	ND			
EUCALYPTOL	0.007	ND			
ISOBORNEOL	0.007	ND			
FARNESENE	0.007	ND			
FENCHONE	0.007	ND			
GAMMA-TERPINENE	0.007	ND			
GERANIOL	0.007	ND			
GERANYL ACETATE	0.007	ND			
GUAJOL	0.007	ND			
LIMONENE	0.007	ND			
LINALOOL	0.007	ND			
NEROL	0.007	ND			
OCIMENE	0.007	ND			
ALPHA-PHELLANDRENE	0.007	ND			
PULEGONE	0.007	ND			
SABINENE	0.007	ND			
SABINENE HYDRATE	0.007	ND			



Terpenes

TESTED

Analyzed by 1118 **Weight** 0.8855g **Extraction date** 01/21/20 **Extracted By** 1118
Analysis Method -SOP.T.40.090
Analytical Batch -DA009570TER
Instrument Used : Liquid Injection GCMS QP2010
Batch Date : 01/21/20

Reagent	Dilution	Consums. ID
052119.04	10	76124-662 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.

Total 0



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Pesticides

PASSED

Pesticides	LOD	Action Level	Units	Result	Pesticides	LOD	Action Level	Units	Result
CHLORDANE	0.005	0.1	ppm	ND	METHOMYL	0.01	0.1	ppm	ND
CAPTAN	0.05	3	ppm	ND	KRESOXIM-METHYL	0.01	1	ppm	ND
BOSCALID	0.01	3	PPM	ND	DIAZANON	0.01	0.2	ppm	ND
DIMETHOATE	0.01	0.1	ppm	ND	CYPERMETHRIN	0.01	1	ppm	ND
AZOXYSTROBIN	0.01	3	ppm	ND	MEVINPHOS	0.01	0.1	ppm	ND
ABAMECTIN B1A	0.02	0.3	ppm	ND	MYCLOBUTANIL	0.01	3	ppm	ND
CIS-PERMETHRIN	0.05	1	ppm	ND	NALED	0.01	0.5	ppm	ND
SPINETORAM	0.01	3	PPM	ND	OXAMYL	0.01	0.5	ppm	ND
ACEPHATE	0.001	3	ppm	ND	PACLOBUTRAZOL	0.01	0.1	ppm	ND
FENOXYCARB	0.01	0.1	ppm	ND	TRANS-PERMETHRIN	0.05	1	ppm	ND
DIMETHOMORPH	0.005	3	ppm	ND	PHOSMET	0.01	0.2	ppm	ND
BIFENAZATE	0.01	3	ppm	ND	PIPERONYL BUTOXIDE	0.01	3	ppm	ND
ETHOPROPHOS	0.01	0.1	ppm	ND	PRALLETHRIN	0.05	0.4	ppm	ND
ACEQUINOCYL	0.01	2	ppm	ND	PROPICONAZOLE	0.01	1	ppm	ND
ACETAMIPRID	0.01	3	ppm	ND	PROPOXUR	0.01	0.1	ppm	ND
ETOFENPROX	0.01	0.1	ppm	ND	PYRETHRIN I	0.01	1	ppm	ND
BIFENTHRIN	0.01	0.5	ppm	ND	PYRIDABEN	0.01	3	ppm	ND
ALDICARB	0.02	0.1	ppm	ND	SPINOSAD (SPINOSYN A)	0.01	3	ppm	ND
ETOXAZOLE	0.01	1.5	ppm	ND	SPINOSAD (SPINOSYN D)	0.01	3	ppm	ND
FENPYROXIMATE	0.01	2	ppm	ND	SPIROMESIFEN	0.01	3	ppm	ND
FIPRONIL	0.02	0.1	ppm	ND	SPIROTETRAMAT	0.02	3	ppm	ND
FENHEXAMID	0.01	3	ppm	ND	SPIROXAMINE	0.01	0.1	ppm	ND
CARBARYL	0.01	0.5	ppm	ND	TEBUCONAZOLE	0.01	1	ppm	ND
CARBOFURAN	0.01	0.1	ppm	ND	THIACLOPRID	0.01	0.1	ppm	ND
FLONICAMID	0.01	2	ppm	ND	THIAMETHOXAM	0.01	1	ppm	ND
FLUDIOXONIL	0.01	3	ppm	ND	TRIFLOXYSTROBIN	0.01	3	ppm	ND
CHLORFENAPYR	0.01	0.1	ppm	ND					
CHLORANTRANILIPROLE	0.01	3	ppm	ND					
HEXYTHIAZOX	0.01	2	ppm	ND					
CHLORPYRIFOS	0.01	0.1	ppm	ND					
IMAZALIL	0.01	0.1	ppm	ND					
MALATHION	0.01	2	ppm	ND					
CLOFENTEZINE	0.01	0.5	ppm	ND					
DAMINOZIDE	0.02	0.1	ppm	ND					
IMIDACLOPRID	0.01	3	ppm	ND					
METALAXYL	0.01	3	ppm	ND					
DICHLORVOS	0.05	0.1	ppm	ND					
METHIOCARB	0.01	0.1	ppm	ND					
COUMAPHOS	0.005	0.1	ppm	ND					

<div></div>		Pesticides		PASSED
Analyzed by 585	Weight 1.0008g	Extraction date 01/21/20	Extracted By 357	
Analysis Method -SOP.T.30.065, SOP.T.40.065				
Analytical Batch - DA009566PES				
Instrument Used : LCMS E-SHI-039				
Batch Date : 01/21/20				
Reagent <div>101519.04 012120.R14 012120.R15</div>	Dilution		Consums. ID 180711	
SOP.T.30.065, SOP.T.40.065				



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	Residual Solvents	PASSED
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	Residual Solvents	PASSED
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SOLVENT	LOD	ACTION LEVEL (PPM)	PASS/FAIL	RESULT
PROPANE	120	2100	PASS	ND
BUTANES (N-BUTANE)	96	2000	PASS	ND
ETHYLENE OXIDE	0.6	5	PASS	ND
METHANOL	22.5	250	PASS	ND
ETHANOL	90	5000	PASS	ND
PENTANES (N-PENTANE)	67.5	750	PASS	ND
ETHYL ETHER	45	500	PASS	ND
ACETONE	67.5	750	PASS	ND
2-PROPANOL	45	500	PASS	ND
ACETONITRILE	5.4	60	PASS	ND
DICHLOROMETHANE	11.25	125	PASS	ND
N-HEXANE	4.5	250	PASS	ND
ETHYL ACETATE	36	400	PASS	ND
BENZENE	0.09	1	PASS	ND
HEPTANE	45	500	PASS	ND
TOLUENE	13.5	150	PASS	ND
CHLOROFORM	0.18	2	PASS	ND
1,2-DICHLOROETHANE	0.18	2	PASS	ND
TRICHLOROETHYLENE	2.25	25	PASS	ND
1,1-DICHLOROETHENE	1	8	PASS	ND
TOTAL XYLENES	13.5	150	PASS	ND

Analyzed by 584 **Weight** 0.0205g **Extraction date** 01/21/20 **Extracted By** 584

Analysis Method -SOP.T.40.032
Analytical Batch -DA009590SOL
Instrument Used : Headspace GCMS 2
Batch Date : 01/21/20

Reagent	Dilution	Consums. ID
	1	00276446 161040-1 24152436

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 34 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).



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	Mycotoxins	PASSED
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Analyte	LOD	Result	Action Level (PPM)
AFLATOXIN G2	0.002	ND	
AFLATOXIN G1	0.002	ND	
AFLATOXIN B2	0.002	ND	
AFLATOXIN B1	0.002	ND	
OCHRATOXIN A+	0.002	ND	0.02
TOTAL AFLATOXINS	0.02	ND	0.02

Analysis Method -SOP.T.30.065, SOP.T.40.065
Analytical Batch -DA009567
Instrument Used : LCMS E-SHI-039
Batch Date : 01/21/20

Analyzed by 585 **Weight** 1g **Extraction date** NA **Extracted By** NA

	Microbials	PASSED
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Analyte	LOD	Result
ASPERGILLUS_FLAVUS	10000	not present in 1 gram.
ASPERGILLUS_FUMIGATUS	10000	not present in 1 gram.
ASPERGILLUS_NIGER	10000	not present in 1 gram.
ASPERGILLUS_TERREUS	10000	not present in 1 gram.
ESCHERICHIA_COLI_SHIGELLA_SPP	10000	not present in 1 gram.
SALMONELLA_SPECIFIC_GENE	10000	not present in 1 gram.

Analysis Method -SOP.T.40.043
Analytical Batch -DA009556MIC
Instrument Used : PathogenDX PCR_Array Scanner
Batch Date : 01/21/20

Analyzed by 513 **Weight** 0.9904g **Extraction date** 01/21/20 **Extracted By** 513

	Heavy Metals	PASSED
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Reagent	Dilution	Consums. ID
011720.R08	50	
011620.R12		
012120.R03		
012120.R04		
011520.R01		
011620.R01		
010220.R04		
111319.01		

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

Analyzed by 396 **Weight** 0.2621g **Extraction date** 01/21/20 **Extracted By** 457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA009552HEA
Instrument Used : ICPMS-2030
Batch Date : 01/21/20

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.