



Certificate of Analysis

SAMPLE:DA00210005-002

Harvest/Lot ID: A29W01

Seed to Sale #N/A

Batch Date :N/A

Batch#: BMR0086

Sample Size Received: 30.3

Ordered : 02/07/20

Sampled : 02/07/20

Completed: 02/13/20 Expires: 02/13/21

Sampling Method: SOP Client Method

PASSED

Page 1 of 5

Feb 13, 2020 | Green Roads

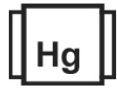
601 Fairway Drive Deerfield Beach
Florida, United States 33441



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/Container :0.00 mg



Total CBD

0.997%

CBD/Container :302.09 mg



Total Cannabinoids

0.997%



CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
ND	ND	ND	ND	ND	ND	ND	ND	0.997 %	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	9.970 mg/g	ND	ND
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0001	0.0001	0.001
ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Filtration PASSED

Analyte	Weight	Extraction date	LOD(ppm)	Extracted By
584	1g	02/10/20		584
Analysis Method -SOP.T.40.013				Batch Date : 02/10/20
Analytical Batch -DA010118FIL				
Instrument Used :				

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	Weight	Extraction date :	Extracted By :
450	2.9427g	02/11/20	574
Analysis Method -SOP.T.40.020, SOP.T.30.050			
Analytical Batch -DA010136POT		Instrument Used : DA-LC-003	
Batch Date : 02/10/20			

Reagent	Dilution	Consums. ID
020420.R14	40	76124-662 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).

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Jorge Segredo
Lab Director

State License # n/a
ISO Accreditation # 97164



Signature

02/13/2020

Signed On



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PASSED

Green Roads

601 Fairway Drive Deerfield Beach
Florida, United States 33441

Telephone: (954) 609-5537

Email: aa@forceinvestments.com

Sample : DA00210005-002
Harvest/LOT ID: A29W01

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Sample Method : SOP Client Method

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Terpenes

TESTED

Terpenes	LOD	Units	TEST RESULT (%)	Terpenes	LOD	Units	TEST RESULT (%)
ALPHA-CEDRENE	0.007	%	ND	HEXAHYDROTHYMOL	0.007	%	0.030
ALPHA-HUMULENE	0.007	%	ND	FENCHYL ALCOHOL	0.007	%	ND
ALPHA-PINENE	0.007	%	ND	3-CARENE	0.007	%	ND
ALPHA-TERPINENE	0.007	%	ND	CIS-NEROLIDOL	0.007	%	ND
BETA-MYRCENE	0.007	%	ND	ISOPULEGOL	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				
SABINENE	0.007	%	ND				
SABINENE HYDRATE	0.007	%	ND				
TERPINEOL	0.007	%	ND				
TERPINOLENE	0.007	%	ND				
BETA-CARYOPHYLLENE	0.007	%	ND				
TRANS-NEROLIDOL	0.007	%	ND				
VALENCENE	0.007	%	ND				
PULEGONE	0.007	%	ND				
ALPHA-PHELLANDRENE	0.007	%	ND				
OCIMENE	0.007	%	ND				
NEROL	0.007	%	ND				
LINALOOL	0.007	%	0.135				
LIMONENE	0.007	%	ND				
GUAIOL	0.007	%	ND				
GERANYL ACETATE	0.007	%	ND				
GERANIOL	0.007	%	ND				
GAMMA-TERPINENE	0.007	%	ND				
FENCHONE	0.007	%	ND				
FARNESENE	0.007	%	ND				
EUCALYPTOL	0.007	%	0.022				
ISOBORNEOL	0.007	%	ND				

Terpenes

TESTED

Analyzed by 1351 **Weight** 0.9943g **Extraction date** 02/10/20 **Extracted By** 1351

Analysis Method -SOP.T.40.090
Analytical Batch -DA010089TER
Instrument Used : Liquid Injection GCMS QP2020 (E-SHI-128)
Batch Date : 02/10/20

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.

Total 0.188

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Jorge Segredo
Lab Director
State License # n/a
ISO Accreditation # 97164

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02/13/2020
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PASSED

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Telephone: (954) 609-5537

Email: aa@forceinvestments.com

Sample : DA00210005-002
Harvest/LOT ID: A29W01

Batch# : BMR0086
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Completed : 02/13/20 **Expires :** 02/13/21
Sample Method : SOP Client Method

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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	MEVINPHOS	0.01	ppm	0.1	ND
ACEPHATE	0.001	ppm	3	ND	MYCLOBUTANIL	0.01	ppm	3	ND
ACEQUINOCYL	0.01	ppm	2	ND	NALED	0.01	ppm	0.5	ND
ACETAMIPRID	0.01	ppm	3	ND	OXAMYL	0.01	ppm	0.5	ND
ALDICARB	0.02	ppm	0.1	ND	PACLOBUTRAZOL	0.01	ppm	0.1	ND
AZOXYSTROBIN	0.01	ppm	3	ND	PHOSMET	0.01	ppm	0.2	ND
BIFENAZATE	0.01	ppm	3	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
BIFENTHRIN	0.01	ppm	0.5	ND	PRALLETHRIN	0.05	ppm	0.4	ND
BOSCALID	0.01	PPM	3	ND	PROPICONAZOLE	0.01	ppm	1	ND
CARBARYL	0.01	ppm	0.5	ND	PROPOXUR	0.01	ppm	0.1	ND
CARBOFURAN	0.01	ppm	0.1	ND	PYRETHRINS	0.01	ppm	1	ND
CHLORANTRANILIPROLE	0.01	ppm	3	ND	PYRIDABEN	0.01	ppm	3	ND
CHLORFENAPYR	0.01	ppm	0.1	ND	SPINETORAM	0.01	PPM	3	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	SPIROMESIFEN	0.01	ppm	3	ND
CLOFENTEZINE	0.01	ppm	0.5	ND	SPIROTETRAMAT	0.02	ppm	3	ND
COUMAPHOS	0.005	ppm	0.1	ND	SPIROXAMINE	0.01	ppm	0.1	ND
CYPERMETHRIN	0.01	ppm	1	ND	TEBUCONAZOLE	0.01	ppm	1	ND
DAMINOZIDE	0.02	ppm	0.1	ND	THIACLOPRID	0.01	ppm	0.1	ND
DIAZANON	0.01	ppm	0.2	ND	THIAMETHOXAM	0.01	ppm	1	ND
DICHLORVOS	0.05	ppm	0.1	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.1	ppm	20	ND
DIMETHOATE	0.01	ppm	0.1	ND	TOTAL PERMETHRIN	1	ppm	1	ND
DIMETHOMORPH	0.005	ppm	3	ND	TOTAL SPINOSAD	1	ppm	3	ND
ETHOPROPHOS	0.01	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
ETOFENPROX	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					



Pesticides

PASSED

Analyzed by 56	Weight 1.0730g	Extraction date 02/10/20	Extracted By 1082
Analysis Method -SOP.T.30.065, SOP.T.40.065, SOP.T40.060, SOP.T.40.070 and SOP.T.40.090			
Analytical Batch - DA010112PES			
Instrument Used : LCMS E-SHI-039			
Batch Date : 02/10/20			
Reagent	Dilution 10	Consums. ID	
<p>Pesticide screen is performed using LC-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 SOP.T40.060 Procedure for Pesticide Quantification Using LCMS). Volatile Pesticides may be tested with GCMSMS under SOP.T.40.070 and SOP.T.40.090.</p>			

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Jorge Segredo
Lab Director

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PASSED

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Sample : DA00210005-002
Harvest/LOT ID: A29W01

Batch# : BMR0086
Sampled : 02/07/20
Ordered : 02/07/20


Sample Size received : 30.3
Completed : 02/13/20 **Expires :** 02/13/21
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	ND
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** 0.0231g **Extraction date** 02/10/20 **Extracted By** 850

Analysis Method -SOP.T.40.032
Analytical Batch -DA010121SOL
Instrument Used : Headspace GCMS
Batch Date : 02/10/20

Reagent	Dilution	Consums. ID
	1	

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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Sample : DA00210005-002
Harvest/LOT ID: A29W01

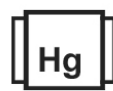
Batch# : BMR0086
Sampled : 02/07/20
Ordered : 02/07/20

Sample Size received : 30.3
Completed : 02/13/20 **Expires :** 02/13/21
Sample Method : SOP Client Method

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Mycotoxins **PASSED**



Heavy Metals **PASSED**

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 -DA010114

Instrument Used : LCMS E-SHI-039

Batch Date : 02/10/20

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.T40.065 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg.

Reagent	Reagent	Dilution	Consums. ID	Consums. ID
020320.R22	020720.R02	50		
020720.R03	111319.01			
020620.R01	012920.R01			
020620.R02				
012920.R03				
020520.R01				

Metal	LOD	Units	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	0.2552g	02/10/20	457

Analysis Method -SOP.T.40.050, SOP.T.30.052

Analytical Batch -DA010092HEA

Instrument Used : ICPMS-2030 B

Batch Date : 02/10/20



Microbials **PASSED**

Analyte

ASPERGILLUS_FLAVUS
ASPERGILLUS_FUMIGATUS
ASPERGILLUS_NIGER
ASPERGILLUS_TERREUS
ESCHERICHIA_COLI_SHIGELLA_SPP
SALMONELLA_SPECIFIC_GENE

Result

not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.

Analysis Method -SOP.T.40.043

Analytical Batch -DA010090MIC

Instrument Used : PathogenDX PCR_Array Scanner,PathogenDX

PCR_NEW MINI AMP DA-089

Batch Date : 02/10/20

Analyzed by	Weight	Extraction date	Extracted By
513	1.0353g	02/10/20	1082

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.

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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