



Certificate of Analysis

Sample: DA00324006-001

Harvest/Lot ID: C12W01

Seed to Sale #N/A

Batch Date :N/A

Batch#: BMR0060/19

Sample Size Received: 35.1 gram

Retail Product Size: 35.1

Ordered : 03/23/20

Sampled : 03/23/20

Completed: 03/27/20 Expires: 03/27/21

Sampling Method: SOP Client Method

PASSED

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Mar 27, 2020 | Green Roads

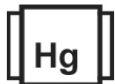
601 Fairway Drive Deerfield Beach
Florida, United States 33441



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
0.014%

THC/Container :4.914 mg



Total CBD
4.416%

CBD/Container :1550.016 mg



Total Cannabinoids
4.541%

Total Cannabinoids/Container
:1593.891 mg

CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
0.029%	ND	0.034%	ND	ND	0.048%	ND	ND	4.416%	0.014%	ND
0.290 mg/g	ND	0.340 mg/g	ND	ND	0.480 mg/g	ND	ND	44.160 mg/g	0.140 mg/g	ND
LOD 0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.0001 %	0.0001 %	0.001 %

Filtration PASSED

Analyzed By 584 Weight 1g Extraction date 03/24/20 LOD(ppm) 584 Extracted By 584
 Analysis Method -SOP.T.40.013 Batch Date : 03/24/20 10:51:35
 Analytical Batch -DA011177FIL Reviewed On - 03/24/20 15:46:06
 Instrument Used : Filtration/Foreign Material Microscope

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	3.0305g	03/24/20 10:03:55	965
Analysis Method -SOP.T.40.020 SOP.T.30.050		Reviewed On - 03/25/20 10:41:12	
Analytical Batch -DA011165POT Instrument Used : DA-LC-003		Batch Date : 03/24/20 08:24:49	
Reagent	Dilution	Consums. ID	
030520.03	400	180111 280653964 914C4-914AK 929C6-929H	

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

03/27/2020

Signed On



Certificate of Analysis

PASSED

Green Roads

601 Fairway Drive Deerfield Beach
Florida, United States 33441
Telephone: (954) 609-5537
Email: ashley@greenroads.com

Sample : DA00324006-001

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Sample Method : SOP Client Method

Page 2 of 5

Terpenes

TESTED

Terpenes	LOD	Units	Result (%)
ALPHA-CEDRENE	0.007	%	ND
ALPHA-HUMULENE	0.007	%	ND
ALPHA-PINENE	0.007	%	ND
ALPHA-TERPINENE	0.007	%	ND
BETA-MYRCENE	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	%	ND
LIMONENE	0.007	%	ND
GUAJOL	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

Total 0

Terpenes	LOD	Units	Result (%)
EUCALYPTOL	0.007	%	ND
ISOBORNEOL	0.007	%	ND
HEXAHYDROTHYMOL	0.007	%	ND
FENCHYL ALCOHOL	0.007	%	ND
3-CARENE	0.007	%	ND
CIS-NEROLIDOL	0.007	%	ND
ISOPULEGOL	0.007	%	ND

Terpenes

TESTED

Analyzed by 1351 **Weight** 1.0045g **Extraction date** 03/24/20 10:03:23 **Extracted By** 1351

Analysis Method -SOP.T.40.090
Analytical Batch -DA011161TER **Reviewed On - 03/26/20 08:16:22**
Instrument Used : Liquid Injection GCMS QP2010
Batch Date : 03/24/20 07:42:18

Reagent	Dilution	Consums. ID
021420.11	10	180111
012120.R13		280653964

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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ISO Accreditation # 97164

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PASSED

Green Roads

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Telephone: (954) 609-5537
Email: ashley@greenroads.com

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Harvest/LOT ID: C12W01

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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	0.01	ppm	0.3	ND	METHOMYL	0.01	ppm	0.1	ND
ACEPHATE	0.01	ppm	3	ND	METHYL PARATHION	0.005	ppm	0.1	ND
ACEQUINOCYL	0.01	ppm	2	ND	MEVINPHOS	0.01	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	3	ND	MYCLOBUTANIL	0.01	ppm	3	ND
ALDICARB	0.01	ppm	0.1	ND	NALED	0.025	ppm	0.5	ND
AZOXYSTROBIN	0.01	ppm	3	ND	OXAMYL	0.05	ppm	0.5	ND
BIFENAZATE	0.01	ppm	3	ND	PACLOBUTRAZOL	0.01	ppm	0.1	ND
BIFENTHRIN	0.01	ppm	0.5	ND	PHOSMET	0.01	ppm	0.2	ND
BOSCALID	0.01	PPM	3	ND	PIPERONYL BUTOXIDE	0.1	ppm	3	ND
CAPTAN	0.07	ppm	3	ND	PRALLETHRIN	0.01	ppm	0.4	ND
CARBARYL	0.05	ppm	0.5	ND	PROPICONAZOLE	0.01	ppm	1	ND
CARBOFURAN	0.01	ppm	0.1	ND	PROPOXUR	0.01	ppm	0.1	ND
CHLORANTRANILIPROLE	0.1	ppm	3	ND	PYRETHRINS	0.05	ppm	1	ND
CHLORFENAPYR	0.01	ppm	0.1	ND	PYRIDABEN	0.02	ppm	3	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	3	ND	SPINETORAM	0.02	PPM	3	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	SPIROMESIFEN	0.01	ppm	3	ND
CLOFENTEZINE	0.02	ppm	0.5	ND	SPIROTETRAMAT	0.01	ppm	3	ND
COUMAPHOS	0.01	ppm	0.1	ND	SPIROXAMINE	0.01	ppm	0.1	ND
CYFLUTHRIN	0.05	ppm	1	ND	TEBUCONAZOLE	0.01	ppm	1	ND
CYPERMETHRIN	0.05	ppm	1	ND	THIACLOPRID	0.01	ppm	0.1	ND
DAMINOZIDE	0.01	ppm	0.1	ND	THIAMETHOXAM	0.05	ppm	1	ND
DIAZANON	0.01	ppm	0.2	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0	ppm	20	ND
DICHLORVOS	0.01	ppm	0.1	ND	TOTAL PERMETHRIN	0.01	ppm	1	ND
DIMETHOATE	0.01	ppm	0.1	ND	TOTAL SPINOSAD	0.01	ppm	3	ND
DIMETHOMORPH	0.02	ppm	3	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
ETHOPROPHOS	0.01	ppm	0.1	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	0.01	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	0.04	ppm	3	ND					
KRESOXIM-METHYL	0.01	ppm	1	ND					
MALATHION	0.02	ppm	2	ND					
METALAXYL	0.01	ppm	3	ND					
METHIACARB	0.01	ppm	0.1	ND					

	Pesticides	PASSED
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Analyzed by 585	Weight 1.0501g	Extraction date 03/24/20 12:03:47	Extracted By 1082
Analysis Method - SOP.T.30.065, SOP.T.40.065, SOP.T.40.060, SOP.T.40.070 and SOP.T.40.090 , SOP.T.30.065, SOP.T.40.065, SOP.T.40.060 and SOP.T.40.090			
Analytical Batch - DA011169PES		Reviewed On - 03/24/20 15:46:06	
Instrument Used : DA-LCMS-001_DER			
Batch Date : 03/24/20 08:37:31			

Reagent 013120.28 031220.R10 032320.R17	Dilution 10	Consums. ID 180111 280653964
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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.T.40.060 Procedure for Pesticide Quantification Using LCMS). Volatile Pesticides may be tested with GCMSMS under SOP.T.40.070 and SOP.T.40.090. * Pesticide screen is performed using GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 2 Volatile Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T.40.090 Volatile Pesticides Analysis by GC-MS/MS)

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Jorge Segredo
Lab Director

State License # n/a
ISO Accreditation # 97164



Signature

03/27/2020

Signed On



Certificate of Analysis

PASSED

Green Roads

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Telephone: (954) 609-5537
Email: ashley@greenroads.com

Sample : DA00324006-001

Harvest/LOT ID: C12W01

Batch# : BMR0060/19

Sampled : 03/23/20

Ordered : 03/23/20

Sample Size Received : 35.1 gram

Completed : 03/27/20 **Expires:** 03/27/21


Sample Method : SOP Client Method

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Residual Solvents

PASSED



Residual Solvents

PASSED

Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
1,1-DICHLOROETHENE	1	ppm	8	PASS	ND
1,2-DICHLOROETHANE	0.18	ppm	2	PASS	ND
2-PROPANOL	45	ppm	500	PASS	ND
ACETONE	67.5	ppm	750	PASS	ND
ACETONITRILE	5.4	ppm	60	PASS	ND
BENZENE	0.09	ppm	1	PASS	ND
BUTANES (N-BUTANE)	96	ppm	5000	PASS	ND
CHLOROFORM	0.18	ppm	2	PASS	ND
DICHLOROMETHANE	3.75	ppm	125	PASS	ND
ETHANOL	90	ppm	1000000	PASS	776.749
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
PROPANE	120	ppm	5000	PASS	ND
TOLUENE	13.5	ppm	150	PASS	ND
TOTAL XYLENES	13.5	ppm	150	PASS	ND
TRICHLOROETHYLENE	2.25	ppm	25	PASS	ND

Analyzed by 850 **Weight** 0.0294g **Extraction date** 03/24/20 01:03:59 **Extracted By** 584

Analysis Method -SOP.T.40.032
Analytical Batch -DA011180SOL **Reviewed On - 03/25/20 11:49:03**
Instrument Used : Headspace GCMS
Batch Date : 03/24/20 13:10:41

Reagent	Dilution	Consums. ID
	1	00279984 161291-1 24154107

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.30.032 Residual Solvents Analysis via GC-MS).

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Jorge Segredo
Lab Director

State License # n/a
ISO Accreditation # 97164



Signature

03/27/2020

Signed On



Certificate of Analysis

PASSED

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Florida, United States 33441
Telephone: (954) 609-5537
Email: ashley@greenroads.com

Sample : DA00324006-001

Harvest/LOT ID: C12W01

Batch# : BMR0060/19

Sampled : 03/23/20

Ordered : 03/23/20

Sample Size Received : 35.1 gram

Completed : 03/27/20 **Expires:** 03/27/21

Sample Method : SOP Client Method

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Mycotoxins
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 - DA011170MYC | **Reviewed On -** 03/25/20 14:02:19
Instrument Used : DA-LCMS-001_DER
Batch Date : 03/24/20 08:39:11

Analyzed by	Weight	Extraction date	Extracted By
585	1g	03/24/20 03:03:07	585

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.

Reagent	Consums. ID
013120.95	181207119C
122719.32	918C4-918J
013120.125	914C4-914AK
013120.221	929C6-929H
020320.54	50AX26219
013120.345	19323
013120.393	23819111
121719.28	190611634
122719.133	
020320.62	
013120.332	
013120.420	
013120.421	
121719.17	
121719.18	

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.



Microbials
PASSED

Analyte	Result
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.
TOTAL_YEAST_AND_MOLD	<100

Analysis Method - SOP.T.40.043
Analytical Batch - DA011172MIC | **Reviewed On -** 03/25/20 17:00:26
Instrument Used : PathogenDX PCR_Array Scanner, PathogenDX PCR_DA-171
Batch Date : 03/24/20 08:59:09

Analyzed by	Weight	Extraction date	Extracted By
513	1.0197g	03/25/20 03:03:20	513



Heavy Metals
PASSED

Reagent	Dilution
032420.R01	50
031820.R03	
031820.R02	
031920.R01	
111319.02	

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.02	ppm	ND	1.5
CADMIUM	0.02	ppm	ND	0.5
LEAD	0.05	ppm	ND	0.5
MERCURY	0.02	ppm	ND	3

Analyzed by	Weight	Extraction date	Extracted By
53	0.2808g	03/24/20 10:03:39	457

Analysis Method - SOP.T.40.050, SOP.T.30.052
Analytical Batch - DA011167HEA | **Reviewed On -** 03/25/20 06:48:48
Instrument Used : ICPMS-2030 B
Batch Date : 03/24/20 08:36:14

Reagent	Dilution	Consums. ID
012120.02		181019-274

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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