



Certificate of Analysis

Sample: DA00417006-002

Harvest/Lot ID: C30W02

Seed to Sale #N/A

Batch Date :N/A

Batch#: BMR0101/20

Sample Size Received: 34.8 gram

Retail Product Size: 34.8

Ordered : 04/09/20

Sampled : 04/09/20

Completed: 04/28/20 Expires: 04/28/21

Sampling Method: SOP Client Method

PASSED

Page 1 of 5

Apr 28, 2020 | Green Roads

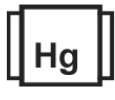
601 Fairway Drive Deerfield Beach
Florida, United States 33441



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 :0.000 mg



Total CBD

4.265%

CBD/Container :1484.220 mg



Total Cannabinoids

4.278%

Total Cannabinoids/Container
:1488.744 mg

CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
ND	ND	ND	ND	ND	0.013%	ND	ND	4.265%	ND	ND
ND	ND	ND	ND	ND	0.130 mg/g	ND	ND	42.650 mg/g	ND	ND
LOD 0.001 %	LOD 0.001 %	LOD 0.001 %	LOD 0.001 %	LOD 0.001 %	LOD 0.001 %	LOD 0.001 %	LOD 0.001 %	LOD 0.0001 %	LOD 0.0001 %	LOD 0.001 %

Filtration PASSED

Analyzed By 584 Weight 1g Extraction date 04/17/20 LOD(ppm) 584 Extracted By 584
 Analysis Method -SOP.T.40.013 Batch Date : 04/17/20 13:00:30
 Analytical Batch -DA011758FIL Reviewed On - 04/17/20 13:03:26
 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 450 Weight 3.0312g Extraction date : 04/27/20 04:04:25 Extracted By : 965
 Analysis Method -SOP.T.40.020, SOP.T.30.050 Reviewed On - 04/28/20 13:02:40
 Analytical Batch -DA011974POT Instrument Used : DA-LC-003 Batch Date : 04/27/20 10:09:13

Reagent	Dilution	Consums. ID
032320.25	400	180111
042420.R18		914C4-914AK
042420.R17		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

04/28/2020

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

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Terpenes

TESTED

Terpenes	LOD	Units	Result (%)	Terpenes	LOD	Units	Result (%)
ALPHA-CEDRENE	0.007	%	ND	EUCALYPTOL	0.007	%	ND
ALPHA-HUMULENE	0.007	%	ND	ISOBORNEOL	0.007	%	ND
ALPHA-PINENE	0.007	%	ND	HEXAHYDROTHYMOL	0.007	%	ND
ALPHA-TERPINENE	0.007	%	ND	FENCHYL ALCOHOL	0.007	%	ND
BETA-MYRCENE	0.007	%	0.058	3-CARENE	0.007	%	ND
BETA-PINENE	0.007	%	ND	CIS-NEROLIDOL	0.007	%	ND
BORNEOL	0.013	%	ND	ISOPULEGOL	0.007	%	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	%	0.033				
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	%	0.063				
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				



Terpenes

TESTED

Analyzed by 1351	Weight 0.9789g	Extraction date 04/17/20 10:04:53	Extracted By 1351
Analysis Method -SOP.T.40.090		Reviewed On - 04/19/20 08:10:52	
Analytical Batch -DA011705TER		Instrument Used : DA-GCMS-004	
Batch Date : 04/16/20 07:38:51			

Reagent	Dilution	Consums. ID
030620.05	10	180111
030620.08		280678841
040720.08		
012120.R13		

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 0.156

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Jorge Segredo
 Lab Director

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PASSED

Green Roads

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Email: ashley@greenroads.com

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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	MYCLOBUTANIL	0.01	ppm	3	ND
ACEPHATE	0.01	ppm	3	ND	NALED	0.025	ppm	0.5	ND
ACEQUINOCYL	0.01	ppm	2	ND	OXAMYL	0.05	ppm	0.5	ND
ACETAMIPRID	0.01	ppm	3	ND	PACLOBUTRAZOL	0.01	ppm	0.1	ND
ALDICARB	0.01	ppm	0.1	ND	PHOSMET	0.01	ppm	0.2	ND
AZOXYSTROBIN	0.01	ppm	3	ND	PIPERONYL BUTOXIDE	0.1	ppm	3	ND
BIFENAZATE	0.01	ppm	3	ND	PRALLETHRIN	0.01	ppm	0.4	ND
BIFENTHRIN	0.01	ppm	0.5	ND	PROPICONAZOLE	0.01	ppm	1	ND
BOSCALID	0.01	PPM	3	ND	PROPOXUR	0.01	ppm	0.1	ND
CARBARYL	0.05	ppm	0.5	ND	PYRETHRINS	0.05	ppm	1	ND
CARBOFURAN	0.01	ppm	0.1	ND	PYRIDABEN	0.02	ppm	3	ND
CHLORANTRANILIPROLE	0.1	ppm	3	ND	SPINETORAM	0.02	PPM	3	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	3	ND	SPIROMESIFEN	0.01	ppm	3	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	SPIROTETRAMAT	0.01	ppm	3	ND
CLOFENTEZINE	0.02	ppm	0.5	ND	SPIROXAMINE	0.01	ppm	0.1	ND
COUMAPHOS	0.01	ppm	0.1	ND	TEBUCONAZOLE	0.01	ppm	1	ND
DAMINOZIDE	0.01	ppm	0.1	ND	THIACLOPRID	0.01	ppm	0.1	ND
DIAZANON	0.01	ppm	0.2	ND	THIAMETHOXAM	0.05	ppm	1	ND
DICHLORVOS	0.01	ppm	0.1	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0	PPM	20	ND
CYPERMETHRIN	0.05	ppm	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					
METHOMYL	0.01	ppm	0.1	ND					
METHYL PARATHION	0.005	ppm	0.1	ND					
MEVINPHOS	0.01	ppm	0.1	ND					

 **Pesticides** **PASSED**

Analyzed by 585 , 56	Weight 1.0547g	Extraction date 04/17/20 11:04:35	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 , SOP.T.30.065, SOP.T.40.065, SOP.T40.060 and SOP.T.40.090			
Analytical Batch - DA011743PES , DA011765		Reviewed On- 04/17/20 13:03:26	
Instrument Used : DA-LCMS-001_DER (PES)			
Batch Date : 04/17/20 09:36:16			
Reagent	Dilution	Consums. ID	
020720.09 041620.812 041620.813 041320.834 112120.013		180111 280678841	
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. * 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

04/28/2020

Signed On



Certificate of Analysis

PASSED

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Harvest/LOT ID: C30W02

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Completed : 04/28/20 **Expires:** 04/28/21

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	0.8	ppm	8	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONE	75	ppm	750	PASS	ND
ACETONITRILE	6	ppm	60	PASS	ND
BENZENE	0.1	ppm	1	PASS	ND
BUTANES (N-BUTANE)	500	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	2	PASS	ND
DICHLOROMETHANE	12.5	ppm	125	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ACETATE	40	ppm	400	PASS	ND
ETHYL ETHER	50	ppm	500	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
METHANOL	25	ppm	250	PASS	ND
N-HEXANE	25	ppm	250	PASS	ND
PENTANES (N-PENTANE)	75	ppm	750	PASS	ND
PROPANE	500	ppm	5000	PASS	ND
TOLUENE	15	ppm	150	PASS	ND
TOTAL XYLENES	15	ppm	150	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	25	PASS	ND

Analyzed by 850 **Weight** 0.0217g **Extraction date** 04/17/20 02:04:42 **Extracted By** 850

Analysis Method -SOP.T.40.032
Analytical Batch -DA011761SOL **Reviewed On - 04/20/20 14:39:19**
Instrument Used : DA-GCMS-002
Batch Date : 04/17/20 14:28:53

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

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04/28/2020

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PASSED

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Telephone: (954) 609-5537
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Harvest/LOT ID: C30W02

Batch# : BMR0101/20

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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 -DA011744MYC | Reviewed On - 04/19/20 21:47:55
Instrument Used : DA-LCMS-001_DER (MYC)
Batch Date : 04/17/20 09:37:22

Analyzed by	Weight	Extraction date	Extracted By
585	1g	04/17/20 04:04:35	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
013120.80	181207119C
022120.40	918C4-918J
022120.179	914C4-914AK
022120.42	929C6-929H
013120.376	50AX26219
121719.91	19323
022120.224	23819111
022120.293	190611634
022120.191	
013120.383	
032720.110	
022120.192	
032720.158	
022120.154	
022120.156	

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 -DA011741MIC | Reviewed On - 04/20/20 18:06:49
Instrument Used : PathogenDX PCR_Array Scanner DA-111,PathogenDX PCR_DA-171
Batch Date : 04/17/20 09:34:16

Analyzed by	Weight	Extraction date	Extracted By
513	1.0462g	04/17/20 10:04:53	1082

Reagent	Dilution	Consums. ID
022520.06		181019-274



Heavy Metals
PASSED

Reagent	Reagent	Dilution	Consums. ID
040720.R10	041320.R02	50	106557-04-091619
041720.R01	041320.R01		
111319.05	041320.R29		
041320.R05			
041320.R04			
041320.R03			

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	0.2725g	04/17/20 10:04:10	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA011737HEA | Reviewed On - 04/20/20 08:20:15
Instrument Used : DA-ICPMS-002
Batch Date : 04/17/20 08:41:18

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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