



# Certificate of Analysis

Mar 23, 2020 | Green Roads

601 Fairway Drive Deerfield Beach  
Florida, United States 33441



Sample: DA00302009-001  
Harvest/Lot ID: B27W01  
Seed to Sale #N/A  
Batch Date :N/A  
Batch#: BMR0091/20  
Sample Size Received: 90.9  
Retail Product Size: 90.9  
Ordered : 02/28/20  
Sampled : 02/28/20  
Completed: 03/23/20 Expires: 03/23/21  
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%**



Total CBD  
**0.372%**



Total Cannabinoids  
**0.399%**

CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
ND	0.027%	ND	ND	ND	ND	ND	ND	0.372%	ND	ND
ND	0.270 mg/g	ND	ND	ND	ND	ND	ND	3.720 mg/g	ND	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: 03/02/20 LOD(ppm): 584 Extracted By: 584  
Analysis Method -SOP.T.40.013 Batch Date : 03/02/20 12:21:46  
Analytical Batch -DA010613FIL Reviewed On - 03/02/20 12:31:39  
Instrument Used : Filth/Foreign Material Microscope

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 used for inspection.

Cannabinoid Profile Test

Analyzed by: 1224 Weight: 3.1891g Extraction date: 03/02/20 12:03:03 Extracted By: 574  
Analysis Method -SOP.T.40.020, SOP.T.30.050 Reviewed On - 03/03/20 15:49:02  
Analytical Batch -DA010600POT Instrument Used : DA-LC-003 CBD Batch Date : 03/02/20 09:38:27

Reagent	Dilution	Consums. ID
022720.R11	40	180111
022620.R12		280653964
022620.R11		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

03/23/2020

Signed On



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601 Fairway Drive Deerfield Beach  
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**Telephone:** (954) 609-5537  
**Email:** support@greenroads.com

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**Completed :** 03/23/20 **Expires:** 03/23/21

**Sample Method :** SOP Client Method

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## Terpenes

**TESTED**

Terpenes	LOD	Units	Result (%)	Terpenes	LOD	Units	Result (%)
ALPHA-CEDRENE	0.007	%	ND	EUCALYPTOL	0.007	%	0.306
ALPHA-HUMULENE	0.007	%	ND	ISOBORNEOL	0.007	%	ND
ALPHA-PINENE	0.007	%	ND	HEXAHYDROTHYMOL	0.007	%	0.547
ALPHA-TERPINENE	0.007	%	ND	FENCHYL ALCOHOL	0.007	%	ND
BETA-MYRCENE	0.007	%	ND	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	%	0.087				
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				
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				
<b>Total</b>			<b>0.942</b>				



## Terpenes

**TESTED**

**Analyzed by** 1351 **Weight** 0.9783g **Extraction date** 03/02/20 10:03:10 **Extracted By** 1351

**Analysis Method -SOP.T.40.090**  
**Analytical Batch -DA010592TER** **Reviewed On - 03/03/20 08:40:18**  
**Instrument Used : GA-Triple Quad GCMS Terp**  
**Batch Date : 03/02/20 08:06:13**

Reagent	Dilution	Consums. ID
021420.10	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  
State License # n/a  
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## Pesticides

**PASSED**

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
DIMETHOATE	0.01	ppm	0.1	ND	DAMINOZIDE	0.02	ppm	0.1	ND
CYPERMETHRIN	0.05	ppm	1	ND	DIAZANON	0.01	ppm	0.2	ND
CYFLUTHRIN	0.05	ppm	1	ND	MEVINPHOS	0.01	ppm	0.1	ND
CHLORFENAPYR	0.01	ppm	0.1	ND	MYCLOBUTANIL	0.01	ppm	3	ND
METHYL PARATHION	0.005	ppm	0.1	ND	NALED	0.01	ppm	0.5	ND
CAPTAN	0.07	ppm	3	ND	OXAMYL	0.01	ppm	0.5	ND
ABAMECTIN B1A	0.02	ppm	0.3	ND	PACLOBUTRAZOL	0.01	ppm	0.1	ND
ACEPHATE	0.001	ppm	3	ND	PHOSMET	0.01	ppm	0.2	ND
DICHLORVOS	0.05	ppm	0.1	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
DIMETHOMORPH	0.005	ppm	3	ND	PRALLETHRIN	0.05	ppm	0.4	ND
ACEQUINOCYL	0.01	ppm	2	ND	PROPICONAZOLE	0.01	ppm	1	ND
ACETAMIPRID	0.01	ppm	3	ND	PROPOXUR	0.01	ppm	0.1	ND
ETHOPROPHOS	0.01	ppm	0.1	ND	PYRETHRINS	0.01	ppm	1	ND
ALDICARB	0.02	ppm	0.1	ND	PYRIDABEN	0.01	ppm	3	ND
ETOFENPROX	0.01	ppm	0.1	ND	SPINETORAM	0.01	PPM	3	ND
AZOXYSTROBIN	0.01	ppm	3	ND	SPIROMESIFEN	0.01	ppm	3	ND
ETOXAZOLE	0.01	ppm	1.5	ND	SPIROTETRAMAT	0.02	ppm	3	ND
BIFENAZATE	0.01	ppm	3	ND	SPIROXAMINE	0.01	ppm	0.1	ND
FENHEXAMID	0.01	ppm	3	ND	TEBUCONAZOLE	0.01	ppm	1	ND
FENOXYCARB	0.01	ppm	0.1	ND	THIACLOPRID	0.01	ppm	0.1	ND
BIFENTHRIN	0.01	ppm	0.5	ND	THIAMETHOXAM	0.01	ppm	1	ND
BOSCALID	0.01	PPM	3	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.1	ppm	20	ND
FENPYROXIMATE	0.01	ppm	2	ND	TOTAL PERMETHRIN	1	ppm	1	ND
CARBARYL	0.01	ppm	0.5	ND	TOTAL SPINOSAD	1	ppm	3	ND
FIPRONIL	0.02	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
FLONICAMID	0.01	ppm	2	ND	CHLORDANE *	0.01	ppm	0.1	ND
CARBOFURAN	0.01	ppm	0.1	ND	PCNB *	0.01	ppm	0.2	ND
CHLORANTRANILIPROLE	0.01	ppm	3	ND					
FLUDIOXONIL	0.01	ppm	3	ND					
HEXYTHIAZOX	0.01	ppm	2	ND					
IMAZALIL	0.01	ppm	0.1	ND					
CHLORMEQUAT CHLORIDE	0.05	ppm	3	ND					
IMIDACLOPRID	0.01	ppm	3	ND					
CHLORPYRIFOS	0.01	ppm	0.1	ND					
KRESOXIM-METHYL	0.01	ppm	1	ND					
MALATHION	0.01	ppm	2	ND					
CLOFENTEZINE	0.01	ppm	0.5	ND					
METALAXYL	0.01	ppm	3	ND					
COUMAPHOS	0.005	ppm	0.1	ND					
METHIOCARB	0.01	ppm	0.1	ND					
METHOMYL	0.01	ppm	0.1	ND					

**Pesticides** **PASSED**

<b>Analyzed by</b> 585 ,	<b>Weight</b> 1.1570g	<b>Extraction date</b> 03/02/20 02:03:14	<b>Extracted By</b> 1082 , 584
<b>Analysis Method</b> - 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 <b>Analytical Batch</b> - DA010601PES , DA010610 <b>Reviewed On</b> - 03/02/20 12:31:39 <b>Instrument Used</b> : DA-LCMS-001_DER <b>Batch Date</b> : 03/02/20 09:48:18			
<b>Reagent</b> 03120830	<b>Dilution</b> 10	<b>Consums. ID</b> 180111 280653964	
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

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**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		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
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** 0.0275g     **Extraction date** 03/02/20 03:03:11     **Extracted By** 850

**Analysis Method -SOP.T.40.032**  
**Analytical Batch -DA010614SOL**     **Reviewed On - 03/03/20 11:58:23**  
**Instrument Used : Headspace GCMS**  
**Batch Date : 03/02/20 14:10:38**

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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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 -DA010602 | Reviewed On - 03/03/20 10:16:34  
Instrument Used : DA-LCMS-001\_DER  
Batch Date : 03/02/20 09:50:29

Analyzed by	Weight	Extraction date	Extracted By
585	1g	03/02/20 04:03:22	1

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 Quantitation Using LCMS. LOQ 1.0 ppb). Aflatoxin B1, B2, G1, and G2 must individually be <20ug/Kg. Ochratoxins must be <20µg/Kg.

Reagent	Reagent	Consums. ID
121619.09	013120.299	SG298A
013120.77		181207119C
013120.99		918C4-918J
013120.115		914C4-914AK
013120.137		929C6-929H
013120.403		50AX26219
013120.339		19323
013120.257		23819111
122719.42		190611634
020420.364		
020420.381		
121719.21		
121719.14		
013120.218		
013120.279		

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.
STAPHYLOCOCCUS_AUREUS	not present in 1 gram.
TOTAL_YEAST_AND_MOLD	<100

Analysis Method -SOP.T.40.043  
Analytical Batch -DA010605MIC | Reviewed On - 03/23/20 14:10:53  
Instrument Used : PathogenDX PCR\_Array Scanner,PathogenDX PCR\_DA-171  
Batch Date : 03/02/20 10:43:08

Analyzed by	Weight	Extraction date	Extracted By
513	1.1110g	03/02/20 10:03:14	1082



**Heavy Metals** PASSED

Reagent	Reagent	Dilution
022020.R13	021720.R04	50
030220.R04	021420.R01	
030220.R01	111319.02	
030220.R02		
021720.R06		
021920.R01		

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.02	ppm	ND	1.5
CADMIUM	0.02	ppm	ND	0.5
LEAD	0.02	ppm	0.343	0.5
MERCURY	0.02	ppm	ND	3

Analyzed by	Weight	Extraction date	Extracted By
53	0.2516g	03/03/20 11:03:07	457

Analysis Method -SOP.T.40.050, SOP.T.30.052  
Analytical Batch -DA010632HEA | Reviewed On - 03/04/20 07:46:42  
Instrument Used : ICPMS-2030  
Batch Date : 03/03/20 08:44:30

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.

Reagent	Dilution	Consums. ID

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