



# Certificate of Analysis

Mar 27, 2020 | Green Roads

601 Fairway Drive Deerfield Beach  
Florida, United States 33441



Sample: DA00319007-001

Harvest/Lot ID: B12W02

Seed to Sale #N/A

Batch Date :N/A

Batch#: BMR0095

Sample Size Received: 10

Retail Product Size: 10

Ordered : 03/18/20

Sampled : 03/18/20

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

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**

## CANNABINOID RESULTS



Total THC

**0.000%**

THC/Container :0.000 mg



Total CBD

**0.662%**

CBD/Container :59.580 mg



Total Cannabinoids

**0.662%**

Total Cannabinoids/Container  
:59.580 mg

CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
ND	ND	ND	ND	ND	ND	ND	ND	0.662%	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	6.620 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	<b>PASSED</b>
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Analyzed By	Weight	Extraction date	LOD(ppm)	Extracted By
56	NA	NA		NA
Analysis Method -SOP.T.40.013		Batch Date :		
Analytical Batch -NA		Reviewed On - 03/20/20 13:15:02		
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 use for inspection.				

## Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
1224	2.4717g	03/23/20 03:03:49	574
Analysis Method -SOP.T.40.020 SOP.T.30.050		Reviewed On - 03/24/20 11:44:27	
Analytical Batch -DA011148POT Instrument Used : DA-LC-003 CBD		Batch Date : 03/23/20 12:24:54	
Reagent	Dilution	Consums. ID	
030520.03	40	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).

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation. The result >99% are variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

**Jorge Segredo**  
Lab Director

State License # n/a  
ISO Accreditation # 97164



Signature

03/27/2020

Signed On



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## Terpenes

**TESTED**

Terpenes	LOD	Units	Result (%)	Terpenes	LOD	Units	Result (%)
ALPHA-CEDRENE	0.007	%	ND	EUCALYPTOL	0.007	%	0.257
ALPHA-HUMULENE	0.007	%	ND	ISOBORNEOL	0.007	%	0.030
ALPHA-PINENE	0.007	%	ND	HEXAHYDROTHYMOL	0.007	%	ND
ALPHA-TERPINENE	0.007	%	ND	FENCHYL ALCOHOL	0.007	%	ND
BETA-MYRCENE	0.007	%	0.282	3-CARENE	0.007	%	ND
BETA-PINENE	0.007	%	ND	CIS-NEROLIDOL	0.007	%	ND
BORNEOL	0.013	%	0.063	ISOPULEGOL	0.007	%	ND
CAMPHENE	0.007	%	ND				
CAMPHOR	0.013	%	0.338				
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	%	0.046				
TERPINOLENE	0.007	%	ND				
BETA-CARYOPHYLLENE	0.007	%	0.151				
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	%	1.685				
LIMONENE	0.007	%	0.022				
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	%	0.123				
<b>Total</b>		<b>3.003</b>					



## Terpenes

**TESTED**

Analyzed by 1351 Weight 0.9316g Extraction date 03/19/20 12:03:28 Extracted By 1351

Analysis Method -SOP.T.40.090  
Analytical Batch -DA011069TER Reviewed On - 03/20/20 08:47:21  
Instrument Used : GA-Triple Quad GCMS Terp  
Batch Date : 03/19/20 08:01:50

Reagent	Dilution	Consums. ID
021420.10	10	180111
012120.R13		280653964
030620.07		

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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**Telephone:** (954) 609-5537

**Email:** ashley@greenroads.com

**Sample :** DA00319007-001

**Harvest/LOT ID:** B12W02

**Batch# :** BMR0095

**Sampled :** 03/18/20

**Ordered :** 03/18/20

**Sample Size Received :** 10

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

**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	0.01	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					
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					
METHIOCARB	0.01	ppm	0.1	ND					

<div></div>		<b>Pesticides</b>		<b>PASSED</b>
<b>Analyzed by</b> 585	<b>Weight</b> 1.0245g	<b>Extraction date</b> 03/19/20 02:03:42	<b>Extracted By</b> 1082	
<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> - DA011078PES		<b>Reviewed On-</b> 03/20/20 13:15:02		
<b>Instrument Used</b> : DA-LCMS-001_DER				
<b>Batch Date</b> : 03/19/20 09:20:56				
<b>Reagent</b>  031220.R10 031620.R12	<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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Harvest/LOT ID: B12W02

Batch# : BMR0095

Sampled : 03/18/20

Ordered : 03/18/20

Sample Size Received : 10

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

Sample Method : SOP Client Method

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	<b>Residual Solvents</b>	<b>PASSED</b>
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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

	<b>Residual Solvents</b>	<b>PASSED</b>
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Analyzed by 850 Weight 0.0252g Extraction date 03/20/20 11:03:59 Extracted By 850

Analysis Method -SOP.T.40.032

Analytical Batch -DA011093SOL

Reviewed On - 03/20/20 15:10:53

Instrument Used : Headspace GCMS

Batch Date : 03/19/20 17:14:51

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 : DA00319007-001

Harvest/LOT ID: B12W02

Batch# : BMR0095

Sampled : 03/18/20

Ordered : 03/18/20

Sample Size Received : 10

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

Sample Method : SOP Client Method

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	<b>Mycotoxins</b>	<b>PASSED</b>
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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 -DA011081MYC | Reviewed On - 03/20/20 11:12:21

Instrument Used : DA-LCMS-001\_DER

Batch Date : 03/19/20 09:24:37

Analyzed by	Weight	Extraction date	Extracted By
585	1g	03/20/20 11:03:23	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 <20ug/Kg.

Reagent	Consums. ID
022120.84	929C6-929H
022120.134	190611634
022120.135	181019-274
013120.345	SG298A
121719.18	181207119C
122719.130	918C4-918J
122719.132	914C4-914AK
123119.65	50AX26219
013120.95	19323
122719.32	23819111
021420.52	
013120.221	
013120.312	
013120.393	
123119.66	

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.

	<b>Microbials</b>	<b>PASSED</b>
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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	0

Analysis Method -SOP.T.40.043

Analytical Batch -DA011125MIC | Reviewed On - 03/27/20 08:24:59

Instrument Used : PathogenDX PCR\_Array Scanner,PathogenDX PCR\_DA-013

Batch Date : 03/23/20 08:57:33

Analyzed by	Weight	Extraction date	Extracted By
513	1.0442g	03/23/20 09:03:35	513

Reagent	Dilution	Consums. ID
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	<b>Heavy Metals</b>	<b>PASSED</b>
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Reagent	Reagent	Dilution
031720.R07	031820.R01	50
031820.R04	031020.R02	
031720.R02	111319.02	
031720.R03		
031820.R03		
031820.R02		

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	ND	0.5
MERCURY	0.02	ppm	ND	3

Analyzed by	Weight	Extraction date	Extracted By
53	0.2525g	03/19/20 02:03:06	457

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

Analytical Batch -DA011073HEA | Reviewed On - 03/20/20 08:55:43

Instrument Used : ICPMS-2030

Batch Date : 03/19/20 08:17:37

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.