



# Certificate of Analysis

Dec 20, 2021 | Green Roads

601 Fairway Dr  
DEERFIELD BEACH, FL, 33441, US



Sample: DA11216009-001

Harvest/Lot ID: M01X01

Batch#: BMR0097/GRW0073

Seed to Sale# N/A

Batch Date: 12/01/21

Sample Size Received: 104.4 gram

Total Weight/Volume: N/A

Retail Product Size: 2.32 gram

Ordered : 12/15/21

sampled : 12/15/21

Completed: 12/20/21

Sampling Method: SOP Client Method

**PASSED**

Page 1 of 5

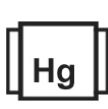
## PRODUCT IMAGE



## 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

**ND**

TOTAL THC/Container : 0 mg



Total CBD

**1.083%**

TOTAL CBD/Container : 25.126 mg



Total Cannabinoids

**1.151%**

Total Cannabinoids/Container : 26.703 mg

	CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
%	ND	ND	ND	0.068	1.083	ND	ND	ND	ND	ND	ND
mg/g	ND	ND	ND	0.68	10.83	ND	ND	ND	ND	ND	ND
LOD	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
%	%	%	%	%	%	%	%	%	%	%	%

	Filtration	
	<b>PASSED</b>	

Analyzed By	Weight	Extraction date	Extracted By
457	NA	12/16/21	457
Analyte	LOD	Result	
Filtration and Foreign Material	0.1	ND	
Analysis Method -SOP.T.40.013	Batch Date : 12/16/21 10:51:18		
Analytical Batch -DA035642FIL	Reviewed On - 12/16/21 11:28:29		
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 5H-2B/T Stereo Microscope is used for inspection.

## Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
450	2.8204g	12/16/21 01:12:32	3112
Analysis Method -SOP.T.40.020, SOP.T.30.050		Reviewed On - 12/17/21 11:57:31	Batch Date : 12/16/21 09:50:43
Analytical Batch -DA035623POT	Instrument Used : DA-LC-003 (Edibles)	Running On : 12/16/21 18:15:49	

Reagent	Dilution	Consumers. ID
121421.R38	40	CE0123
111821.15		239146
121421.R37		293017195
113021.82		61633-125C6-125E
		11945-019CD-019C

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 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 # CMTL-0002  
ISO Accreditation # ISO/IEC  
17025:2017 Accreditation  
PJLA-Testing 97164

  
Signature

12/20/21

Signed On



# Certificate of Analysis

**PASSED**
**Green Roads**

 601 Fairway Dr  
 DEERFIELD BEACH, FL, 33441, US

**Telephone:** (844) 747-3367

**Email:** LAURA@GREENROADSWORLD.COM

**Sample :** DA11216009-001

**Harvest/Lot ID:** M01X01

**Batch# :**

BMR0097/GRW0073

**Sampled :** 12/15/21

**Ordered :** 12/15/21

**Sample Size Received :** 104.4 gram

**Total Weight/Volume :** N/A

**Completed :** 12/20/21 **Expires:** 12/20/22

**Sample Method :** SOP Client Method

Page 2 of 5



## Terpenes

**TESTED**

Terpenes	LOD(%)	mg/g	%	Result (%)	Terpenes	LOD(%)	mg/g	%	Result (%)
TOTAL TERPINEOL	0.007	ND	ND		BORNEOL	0.013	ND	ND	
CAMPHENE	0.007	ND	ND		GERANIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	ND	ND		PULEGONE	0.007	ND	ND	
3-CARENE	0.007	ND	ND		ALPHA-CEDRENE	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	ND	ND		ALPHA-HUMULENE	0.007	ND	ND	
OCIMENE	0.007	ND	ND		TRANS-NEROLIDOL	0.007	ND	ND	
EUCALYPTOL	0.007	ND	ND		GUAJOL	0.007	ND	ND	
LINALOOL	0.007	ND	ND						
FENCHONE	0.007	ND	ND						
ISOPULEGOL	0.007	ND	ND						
ISOBORNEOL	0.007	ND	ND						
HEXAHYDROTHYMOL	0.007	0.39	0.039						
NEROL	0.007	ND	ND						
GERANYL ACETATE	0.007	ND	ND						
BETA-CARYOPHYLLENE	0.007	ND	ND						
VALENCENE	0.007	ND	ND						
CEDROL	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
FARNESENE	0.007	ND	ND						
CARYOPHYLLENE	0.007	ND	ND						
OXIDE									
ALPHA-BISABOLOL	0.007	< 0.2	< 0.02						
ALPHA-PINENE	0.007	ND	ND						
SABINENE	0.007	ND	ND						
BETA-PINENE	0.007	ND	ND						
ALPHA-TERPINENE	0.007	ND	ND						
LIMONENE	0.007	ND	ND						
GAMMA-TERPINENE	0.007	ND	ND						
TERPINOLENE	0.007	ND	ND						
SABINENE HYDRATE	0.007	ND	ND						
FENCHYL ALCOHOL	0.007	ND	ND						
CAMPHOR	0.013	ND	ND						
<b>Total (%)</b>		<b>0.039</b>							



## Terpenes

**TESTED**

Analyzed by 2651	Weight 0.8808g	Extraction date 12/16/21 01:12:29	Extracted By 2651
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Analysis Method -SOP.T.40.090	Reviewed On - 12/17/21 09:13:36
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Analytical Batch -DA035607TER

Instrument Used : DA-GCMS-005

Running On :

Batch Date : 12/16/21 08:37:25

Reagent	Dilution	Consums. ID
081021.16	10	280678841 CE0123 914C4-914AK 929C6-929H

Terpenoid profile screening is performed using GC-MS/MS TO-8040 with Liquid Injection (Gas Chromatography - Mass Spectrometer Triple Quad) which can screen 37 terpenes using Method SOP.T.40.090 Terpenoid Analysis Via GC-MS/MS.



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**Sample :** DA11216009-001

**Harvest/Lot ID:** M01X01

**Batch# :**

BMR0097/GRW0073

**Sampled :** 12/15/21

**Ordered :** 12/15/21

**Sample Size Received :** 104.4 gram

**Total Weight/Volume :** N/A

**Completed :** 12/20/21 **Expires:** 12/20/22

**Sample Method :** SOP Client Method

Page 3 of 5



## Pesticides

**PASSED**

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.01	ppm	0.3	ND	PROPOXUR	0.01	ppm	0.1	ND
ACEPHATE	0.01	ppm	3	ND	PYRETHRINS	0.05	ppm	1	ND
ACEQUINOCL	0.01	ppm	2	ND	PYRIDABEN	0.02	ppm	3	ND
ACETAMIPRID	0.01	ppm	3	ND	SPIROMESIFEN	0.01	ppm	3	ND
ALDICARB	0.01	ppm	0.1	ND	SPIROTETRAMAT	0.01	ppm	3	ND
AZOXYSTROBIN	0.01	ppm	3	ND	SPIROXAMINE	0.01	ppm	0.1	ND
BIFENAZATE	0.01	ppm	3	ND	TEBUCONAZOLE	0.01	ppm	1	ND
BIFENTHRIN	0.01	ppm	0.5	ND	THIACLOPRID	0.01	ppm	0.1	ND
BOSCALID	0.01	PPM	3	ND	THIAMETHOXAM	0.05	ppm	1	ND
CARBARYL	0.05	ppm	0.5	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.005	PPM		ND
CARBOFURAN	0.01	ppm	0.1	ND	TOTAL DIMETHOMORPH	0.02	PPM	3	ND
CHLORANTRANILIPROLE	0.1	ppm	3	ND	TOTAL PERMETHRIN	0.01	ppm	1	ND
CHLORMEQUAT CHLORIDE	0.1	ppm	3	ND	TOTAL SPINETORAM	0.02	PPM	3	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	TOTAL SPINOSAD	0.01	ppm	3	ND
CLOFENTEZINE	0.02	ppm	0.5	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
COUMAPHOS	0.01	ppm	0.1	ND	PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.2	ND
DAMINOZIDE	0.01	ppm	0.1	ND	PARATHION-METHYL *	0.01	PPM	0.1	ND
DIAZINON	0.01	ppm	3	ND	CAPTAN *	0.025	PPM	3	ND
DICHLORVOS	0.01	ppm	0.1	ND	CHLORDANE *	0.01	PPM	0.1	ND
DIMETHOATE	0.01	ppm	0.1	ND	CHLORFENAPYR *	0.01	PPM	0.1	ND
ETHOPROPHOS	0.01	ppm	0.1	ND	CYFLUTHRIN *	0.01	PPM	1	ND
ETOFENPROX	0.01	ppm	0.1	ND	CYPERMETHRIN *	0.01	PPM	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	1	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					
METHOMYL	0.01	ppm	0.1	ND					
MEVINPHOS	0.01	ppm	0.1	ND					
MYCLOBUTANIL	0.01	ppm	3	ND					
NALED	0.025	ppm	0.5	ND					
OXAMYL	0.05	ppm	0.5	ND					
PACLOBUTRAZOL	0.01	ppm	0.1	ND					
PHOSMET	0.01	ppm	0.2	ND					
PIPERONYL BUTOXIDE	0.3	ppm	3	ND					
PRALLETHRIN	0.01	ppm	0.4	ND					
PROPICONAZOLE	0.01	ppm	1	ND					



## Pesticides

**PASSED**

<b>Analyzed by</b> 585, 795	<b>Weight</b> 0.8807g	<b>Extraction date</b> 12/16/21 03:12:06	<b>Extracted By</b> 585, 585
Analysis Method - SOP.T.30.065, SOP.T.40.065, SOP.T.40.066, SOP.T.40.070, SOP.T.30.060, SOP.T.40.070			
Analytical Batch - DA035632PES, DA035633VOL			Reviewed On- 12/16/21 11:28:29
Instrument Used : DA-LCMS-003 (PES), DA-GCMS-006			Batch Date : 12/16/21 10:32:07
Running On : 12/16/21 16:36:15			
<b>Reagent</b> 112221.R11 090820.59 121402.R08 112221.R38 121521.R01	<b>Dilution</b> 250	<b>Consums. ID</b> 6524407-03	

Pesticide screen is performed using LC-MS and/or GC-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 GCMSMS. SOP.T40.065/SOP.T.40.066/SOP.T.40.070 Procedure for Pesticide Quantification Using LCMS and GCMS). \* Volatile Pesticide screening is performed using GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Analytes marked with an asterisk were tested using GC-MS.





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**Harvest/Lot ID:** M01X01

**Batch# :**

BMR0097/GRW0073

**Sampled :** 12/15/21

**Ordered :** 12/15/21

**Sample Size Received :** 104.4 gram

**Total Weight/Volume :** N/A

**Completed :** 12/20/21 **Expires:** 12/20/22

**Sample Method :** SOP Client Method

Page 4 of 5

	<b>Residual Solvents</b>	<b>PASSED</b>
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	<b>Residual Solvents</b>	<b>PASSED</b>
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Solvent	LOD	Units	Action Level	Pass/Fail	Result
METHANOL	25	ppm	250	PASS	ND
ETHANOL	500	ppm	5000	PASS	4151.941
PENTANES (N-PENTANE)	75	ppm	750	PASS	ND
ETHYL ETHER	50	ppm	500	PASS	ND
ACETONE	75	ppm	750	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONITRILE	6	ppm	60	PASS	ND
DICHLOROMETHANE	12.5	ppm	125	PASS	ND
N-HEXANE	25	ppm	250	PASS	ND
ETHYL ACETATE	40	ppm	400	PASS	ND
BENZENE	0.1	ppm	1	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TOLUENE	15	ppm	150	PASS	ND
TOTAL XYLENES	15	ppm	150	PASS	ND
PROPANE	500	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
BUTANES (N-BUTANE)	500	ppm	5000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	25	PASS	ND

**Analyzed by** 850  
**Weight** 0.0237g  
**Extraction date** NA  
**Extracted By** NA  
**Analysis Method** -SOP.T.40.032  
**Analytical Batch** -DA035657SOL  
**Instrument Used** : DA-GCMS-002  
**Running On** : 12/17/21 15:45:02  
**Batch Date** : 12/16/21 14:22:11  
**Reviewed On** - 12/18/21 16:34:36

Reagent	Dilution	Consums. ID
030420.09	1	R2017.271 G201.062

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.40.032 Residual Solvents Analysis via GC-MS).



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**Sample : DA11216009-001**
**Harvest/Lot ID: M01X01**
**Batch# :**  
 BMR0097/GRW0073  
**Sampled :** 12/15/21  
**Ordered :** 12/15/21

**Sample Size Received :** 104.4 gram  
**Total Weight/Volume :** N/A  
**Completed :** 12/20/21 **Expires:** 12/20/22  
**Sample Method :** SOP Client Method

Page 5 of 5

	<b>Microbials</b>	<b>PASSED</b>
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Analyte	LOD	Result	Action Level
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.	
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.	
ASPERGILLUS_FLAVUS		not present in 1 gram.	
ASPERGILLUS_FUMIGATUS		not present in 1 gram.	
ASPERGILLUS_TERREUS		not present in 1 gram.	
ASPERGILLUS_NIGER		not present in 1 gram.	
TOTAL YEAST AND MOLD	10	<10 CFU	100000

Analysis Method -SOP.T.40.043 / SOP.T.40.044 / SOP.T.40.041  
 Analytical Batch -DA035612MIC, DA035650TYM Batch Date : 12/16/21 09:38:07,  
 12/16/21 13:17:22  
 Instrument Used : PathogenDx Scanner DA-111,  
 Running On : 12/17/21 08:46:46

Analyzed by	Weight	Extraction date	Extracted By
1829, 1829	1.1418g	12/17/21 12:12:02	513,

Reagent	Dilution
111521.15	1
120721.R42	
021121.11	

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. Pour-plating is used for quantitation and confirmation, Total Yeast and Mold has an action limit of 100,000 CFU.

	<b>Mycotoxins</b>	<b>PASSED</b>
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Analyte	LOD	Units	Result	Action Level
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 -DA035634MYC | Reviewed On - 12/17/21 13:38:45  
 Instrument Used : DA-LCMS-003 (MYC)  
 Running On : 12/16/21 16:37:36  
 Batch Date : 12/16/21 10:35:11

Analyzed by	Weight	Extraction date	Extracted By
585	g	12/16/21 02:12:01	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.

	<b>Heavy Metals</b>	<b>PASSED</b>
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Reagent	Reagent	Dilution	Consums. ID
113021.R29	121421.R41	100	179436
120721.R43	121421.R42		3146-870-008
112421.R52	112921.R57		12265-115CC
113021.R31	121521.R40		
121321.R08	021921.13		
120821.R49	120121.08		

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

Analyzed by	Weight	Extraction date	Extracted By
53	0.2511g	12/16/21 12:12:17	1879

Analysis Method -SOP.T.40.050, SOP.T.30.052, SOP.T.30.053, SOP.T.40.051  
 Analytical Batch -DA035625HEA | Reviewed On - 12/17/21 10:40:20  
 Instrument Used : DA-ICPMS-003  
 Running On : 12/17/21 07:43:25  
 Batch Date : 12/16/21 10:16:02

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) using Method SOP.T.30.052, SOP.T.30.053 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050, SOP.T.40.051 Heavy Metals Analysis via ICP-MS.