



# Certificate of Analysis

Sample:GA00910007-002  
Harvest/Lot ID: J01W02  
Seed to Sale #N/A  
Batch Date :09/01/20  
Batch#: BMR0051/GRW0029  
Sample Size Received: 34.8 gram  
Retail Product Size: 34.8  
Ordered : 09/03/20  
Sampled : 09/03/20  
Completed: 09/15/20 Expires: 09/15/21  
Sampling Method: SOP Client Method

Sep 15, 2020 | Green Roads

601 Fairway Drive, 601 Fairway Drive  
Deerfield Beach, Florida, 33441



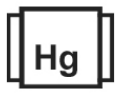
**PASSED**

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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%**  
THC/Container :0.000 mg



Total CBD  
**3.709%**  
CBD/Container :1291.052 mg



Total Cannabinoids  
**3.795%**  
Total Cannabinoids/Container :1320.667 mg

CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
0.014%	ND	ND	0.010%	3.709%	ND	0.025%	ND	ND	0.034%	ND
0.140 mg/g	ND	ND	0.100 mg/g	37.090 mg/g	ND	0.250 mg/g	ND	ND	0.340 mg/g	ND
LOD 0.001 %	0.001 %	0.001 %	0.001 %	0.0001 %	0.001 %	0.001 %	0.0001 %	0.001 %	0.001 %	0.001 %

**Filtration PASSED**

Analyzed By 1541 Weight 31.3g Extraction date 09/10/20 LOD(ppm) 1791 Extracted By 1791  
Analysis Method -SOP.T.40.013 Batch Date : 09/10/20 12:08:44  
Analytical Batch -GA015554FIL Reviewed On - 09/10/20 14:33:59  
Instrument Used : GA-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

Reagent	Dilution	Consums. ID
071420.14	40	280630187
031020.14		VAV-09-1020 Lot# 947.077
090220.R17		6970145500298
090820.R07		190624060
		16466-042

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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Jeremy Campbell  
Lab Director

State License # CMTL-0001  
ISO Accreditation # 97164



Signature

09/15/2020

Signed On



# Certificate of Analysis

**PASSED**

**Green Roads**

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

**Sample :** GA00910007-002  
**Harvest/LOT ID:** J01W02

**Batch# :** BMR0051/GRW0029  
**Sampled :** 09/03/20  
**Ordered :** 09/03/20

**Sample Size Received :** 34.8 gram  
**Completed :** 09/15/20 **Expires:** 09/15/21  
**Sample Method :** SOP Client Method

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## Terpenes

# TESTED

Terpenes	LOD	Units	Result (%)
ALPHA-HUMULENE	0.007	%	<0.020
ALPHA-CEDRENE	0.007	%	ND
SABINENE	0.007	%	ND
SABINENE HYDRATE	0.007	%	ND
TERPINEOL	0.007	%	ND
TERPINOLENE	0.007	%	ND
BETA-CARYOPHYLLENE	0.007	%	<0.020
TRANS-NEROLIDOL	0.007	%	<0.020
VALENCENE	0.007	%	ND
ALPHA-BISABOLOL	0.007	%	<0.020
CARYOPHYLLENE OXIDE	0.007	%	ND
CAMPHOR	0.013	%	ND
CAMPHENE	0.007	%	ND
BORNEOL	0.013	%	ND
BETA-PINENE	0.007	%	ND
BETA-MYRCENE	0.007	%	ND
ALPHA-TERPINENE	0.007	%	ND
ALPHA-PINENE	0.007	%	ND
CEDROL	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	%	<0.020
GERANYL ACETATE	0.007	%	ND
GERANIOL	0.007	%	ND
GAMMA-TERPINENE	0.007	%	ND
FENCHONE	0.007	%	ND
FARNESENE	0.007	%	ND

**Total** 0.000

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** 508    **Weight** 1.0050g    **Extraction date** 09/11/20 11:09:09    **Extracted By** 1791

**Analysis Method -SOP.T.40.090**  
**Analytical Batch -GA015604TER**    **Reviewed On - 09/14/20 16:36:58**  
**Instrument Used : GA-GCMS-002 QP2010S**  
**Batch Date : 09/11/20 10:55:20**

Reagent	Dilution	Consums. ID
042920.02	10	280630187 VAV-09-1020 Lot# 947.077 6970145500298 P734631 / P7411895 180928119C

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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**Jeremy Campbell**  
Lab Director  
State License # CMTL-0001  
ISO Accreditation # 97164

  
Signature

09/15/2020  
Signed On



# Certificate of Analysis

**PASSED**

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Deerfield Beach, Florida, 33441  
**Telephone:** (954) 609-5537  
**Email:** ashley@greenroads.com

**Sample :** GA00910007-002  
**Harvest/LOT ID:** J01W02

**Batch# :** BMR0051/GRW0029  
**Sampled :** 09/03/20  
**Ordered :** 09/03/20

**Sample Size Received :** 34.8 gram  
**Completed :** 09/15/20 **Expires:** 09/15/21  
**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	PROPICONAZOLE	0.01	ppm	1	ND
ACEPHATE	0.01	ppm	3	ND	PROPOXUR	0.01	ppm	0.1	ND
ACEQUINOCYL	0.01	ppm	2	ND	PYRETHRIN I	0.01	ppm	1	ND
ACETAMIPRID	0.01	ppm	3	ND	PYRETHRIN II	0.01	ppm	1	ND
ALDICARB	0.01	ppm	0.1	ND	PYRETHRINS	0.05	ppm	1	ND
AZOXYSTROBIN	0.01	ppm	3	ND	PYRIDABEN	0.02	ppm	3	ND
BIFENAZATE	0.01	ppm	3	ND	SPINETORAM	0.02	PPM	3	ND
BIFENTHRIN	0.01	ppm	0.5	ND	SPINOSAD (SPINOSYN A)	0.01	ppm	3	ND
BOSCALID	0.01	PPM	3	ND	SPINOSAD (SPINOSYN D)	0.01	ppm	3	ND
CARBARYL	0.05	ppm	0.5	ND	SPIROMESIFEN	0.01	ppm	3	ND
CARBOFURAN	0.01	ppm	0.1	ND	SPIROTETRAMAT	0.01	ppm	3	ND
CHLORANTRANILIPROLE	0.1	ppm	3	ND	SPIROXAMINE	0.01	ppm	0.1	ND
CHLORMEQUAT CHLORIDE	0.1	ppm	3	ND	TEBUCONAZOLE	0.01	ppm	1	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	THIACLOPRID	0.01	ppm	0.1	ND
CLOFENTEZINE	0.02	ppm	0.5	ND	THIAMETHOXAM	0.05	ppm	1	ND
COUMAPHOS	0.01	ppm	0.1	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0	PPM	20	ND
DAMINOZIDE	0.01	ppm	0.1	ND	TOTAL PERMETHRIN	0.01	ppm	1	ND
DIAZANON	0.01	ppm	0.2	ND	TOTAL SPINOSAD	0.01	ppm	3	ND
DICHLORVOS	0.01	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
DIMETHOATE	0.01	ppm	0.1	ND	CHLORDANE *	0.01	PPM	0.1	ND
DIMETHOMORPH	0.02	ppm	3	ND	PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.2	ND
ETHOPROPHOS	0.01	ppm	0.1	ND	PARATHION-METHYL *	0.01	PPM	0.1	ND
ETOFENPROX	0.01	ppm	0.1	ND	CAPTAN *	0.025	PPM	3	ND
ETOXAZOLE	0.01	ppm	1.5	ND	CHLORFENAPYR *	0.01	PPM	0.1	ND
FENHEXAMID	0.01	ppm	3	ND	CYFLUTHRIN *	0.01	PPM	1	ND
FENOXYCARB	0.01	ppm	0.1	ND	CYPERMETHRIN *	0.01	PPM	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					
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	0.1	ppm	3	ND					
PRALLETHRIN	0.01	ppm	0.4	ND					


**Pesticides**
PASSED

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**Analyzed by**  
585 , 1541

**Analysis Method** - SOP.T.30.065, SOP.T.40.065 , SOP.T.30.065, SOP.T40.070

**Analytical Batch** - GA015563PES , GA015587VOL

**Instrument Used** : DA-LCMS-001\_DER (PES) , GA-GCMS-003 Triple Quad Pest

**Batch Date** : 09/10/20 14:40:19

**Weight**  
1.0098g

**Extraction date**  
09/10/20 04:09:55

**Reviewed On**- 09/10/20 14:33:59

**Extracted By**  
1850 , 1541

---

Reagent	Dilution	Consums. ID
090320.R03	10	282066106 6970145500298 VAV-09-1020 (947.077) / ALK-09-1412 (9291.179) P734631 / P7411895 VAV-09-1020 Lot# 947.077

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.T40.065 Procedure for Pesticide Quantification Using LCMS). \* 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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**Jeremy Campbell**  
Lab Director

State License # CMTL-0001  
ISO Accreditation # 97164



Signature

09/15/2020

Signed On





# Certificate of Analysis

**PASSED**

**Green Roads**

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

**Sample :** GA00910007-002  
**Harvest/LOT ID:** J01W02

**Batch# :** BMR0051/GRW0029  
**Sampled :** 09/03/20  
**Ordered :** 09/03/20


**Sample Size Received :** 34.8 gram  
**Completed :** 09/15/20 **Expires:** 09/15/21  
**Sample Method :** SOP Client Method

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## Residual Solvents

PASSED



## Residual Solvents

PASSED

Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
PROPANE	500	ppm	2100	PASS	ND
BUTANES (N-BUTANE)	500	ppm	2000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
METHANOL	25	ppm	3000	PASS	ND
ETHANOL	500	ppm	5000	PASS	<2500.000
PENTANES (N-PENTANE)	75	ppm	5000	PASS	ND
ETHYL ETHER	50	ppm	5000	PASS	ND
ACETONE	75	ppm	5000	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONITRILE	6	ppm	410	PASS	ND
DICHLOROMETHANE	12.5	ppm	600	PASS	ND
N-HEXANE	25	ppm	290	PASS	ND
ETHYL ACETATE	40	ppm	5000	PASS	ND
BENZENE	0.1	ppm	2	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TOLUENE	15	ppm	890	PASS	ND
TOTAL XYLENES	15	ppm	150	PASS	ND
CHLOROFORM	0.2	ppm	60	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	5	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	80	PASS	ND
XYLENES-M (1,3-DIMETHYLBENZENE)	13.5	ppm	2170	PASS	ND
XYLENES-O (1,2-DIMETHYLBENZENE)	13.5	ppm	2170	PASS	ND
XYLENES-P (1,4-DIMETHYLBENZENE)	13.5	ppm	2170	PASS	ND

**Analyzed by** 508      **Weight** .0227g      **Extraction date** 09/11/20 03:09:13      **Extracted By** 508

**Analysis Method -SOP.T.40.032**  
**Analytical Batch -GA015561SOL**      **Reviewed On - 09/14/20 16:18:27**  
**Instrument Used : GA-GCMS-001 Headspace Solvent**  
**Batch Date : 09/10/20 14:35:27**

Reagent	Dilution	Consums. ID
		24154107 ach-20-1720

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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**Jeremy Campbell**  
Lab Director

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**Harvest/LOT ID:** J01W02

**Batch# :** BMR0051/GRW0029  
**Sampled :** 09/03/20  
**Ordered :** 09/03/20

**Sample Size Received :** 34.8 gram  
**Completed :** 09/15/20 **Expires:** 09/15/21  
**Sample Method :** SOP Client Method

**Page 5 of 5**


PASSED


PASSED

Analyte	LOD	Result	Analyte	LOD	Units	Result	Action Level (PPM)
ASPERGILLUS_FLAVUS		not present in 1 gram.	AFLATOXIN G2	0.002	ppm	ND	0.02
ASPERGILLUS_FUMIGATUS		not present in 1 gram.	AFLATOXIN G1	0.002	ppm	ND	0.02
ASPERGILLUS_NIGER		not present in 1 gram.	AFLATOXIN B2	0.002	ppm	ND	0.02
ASPERGILLUS_TERREUS		not present in 1 gram.	AFLATOXIN B1	0.002	ppm	ND	0.02
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.	OCHRATOXIN A+	0.002	ppm	ND	0.02
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.					
TOTAL YEAST AND MOLD	100	< 100 CFU					

**Analysis Method** -SOP.T.40.043 / SOP.T.40.044  
**Analytical Batch** -GA015567MIC , GA015568TYM **Batch Date** : 09/10/20, 09/10/20  
**Instrument Used** : GA-093 PathogenDx Scanner, GA-093 PathogenDx Scanner  
**Running On** :

**Analysis Method** -SOP.T.30.065, SOP.T.40.065  
**Analytical Batch** -GA015566MYC | **Reviewed On** - 09/14/20 15:21:54  
**Instrument Used** : DA-LCMS-001\_DER (MYC)  
**Running On** :  
**Batch Date** : 09/10/20 17:09:54

Analyzed by	Weight	Extraction date	Extracted By
973, 973	1.0922g	09/11/20	973, 1748

Analyzed by	Weight	Extraction date	Extracted By
585	1.0098g	09/11/20 12:09:00	1850

**Dilution**  
10  
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.

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.


PASSED

Reagent	Reagent	Dilution	Consums. ID
041420.13	091020.R03	50	190624060
101719.R07	090820.R01		106667-05-100719
082020.R21			
110519.12			
081420.12			
063020.R14			

Metal	LOD	Unit	Result	Action Level (PPM)
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
650	0.5018g	09/11/20 09:09:00	1791

**Analysis Method** -SOP.T.40.050, SOP.T.30.052  
**Analytical Batch** -GA015588HEA | **Reviewed On** - 09/14/20 15:04:52  
**Instrument Used** : GA-ICPMS-001-DER  
**Running On** :  
**Batch Date** : 09/11/20 08:48:31

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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**Jeremy Campbell**  
Lab Director



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