



# Certificate of Analysis

Jan 20, 2020 | Green Roads

 601 Fairway Drive Deerfield Beach  
 Florida, United States 33441


SAMPLE:DA00116005-001

Harvest/Lot ID: A02W02

Seed to Sale #N/A

Batch Date :N/A

Batch#: BMR0045/19

Sample Size Received: 35.1 gram

Ordered : 01/15/20

Sampled : 01/15/20

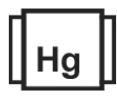
Completed: 01/20/20 Expires: 01/20/21

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  
**3.768%**

 Total Cannabinoids  
**3.801%**


CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	THCA	D9-THC
ND	ND	0.020 %	ND	ND	0.014 %	ND	ND	3.768 %	ND	ND
ND	ND	0.200 mg/g	ND	ND	0.140 mg/g	ND	ND	37.680 mg/g	ND	ND
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0001	0.001	0.0001

**Cannabinoid Profile Test**

Analyzed by	Weight	Extraction date :	Extracted By :
1224	3.0596g	01/16/20	574
Analysis Method -SOP.T.40.020, SOP.T.30.050			
Analytical Batch -DA009479POT		Instrument Used : DA-LC-003	
		Batch Date : 01/16/20	

Reagent	Dilution	Consums. ID
011020.R10 011020.R11 011420.R09 011420.R08	400	

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

**Jorge Segredo**  
 Lab Director

 State License # n/a  
 ISO Accreditation # 97164



Signature

01/20/2020

Signed On



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**Telephone:** (954) 609-5537  
**Email:** aa@forceinvestments.com

**Sample :** DA00116005-001  
**Harvest/LOT ID:** A02W02

**Batch# :** BMR0045/19 **Sample Size received :** 35.1 gram  
**Sampled :** 01/15/20 **Completed :** 01/20/20 **Expires :** 01/20/21  
**Ordered :** 01/15/20 **Sample Method :** SOP Client Method

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**Terpenes**

**TESTED**

Terpenes	LOD	TEST RESULT (%)	Terpenes	LOD	TEST RESULT (%)
ALPHA-CEDRENE	0.007	ND	TERPINEOL	0.007	ND
ALPHA-HUMULENE	0.007	ND	TERPINOLENE	0.007	ND
ALPHA-PINENE	0.007	ND	BETA-CARYOPHYLLENE	0.007	ND
ALPHA-TERPINENE	0.007	ND	TRANS-NEROLIDOL	0.007	ND
BETA-MYRCENE	0.007	ND	VALENCENE	0.007	ND
BETA-PINENE	0.007	ND			
BORNEOL	0.013	ND			
CAMPHENE	0.007	ND			
CAMPHOR	0.013	ND			
CARYOPHYLLENE OXIDE	0.007	ND			
CEDROL	0.007	ND			
ALPHA-BISABOLOL	0.007	ND			
ISOPULEGOL	0.007	ND			
CIS-NEROLIDOL	0.007	ND			
3-CARENE	0.007	ND			
FENCHYL ALCOHOL	0.007	ND			
HEXAHYDROTHYMOL	0.007	ND			
EUCALYPTOL	0.007	ND			
ISOBORNEOL	0.007	ND			
FARNESENE	0.007	ND			
FENCHONE	0.007	ND			
GAMMA-TERPINENE	0.007	ND			
GERANIOL	0.007	ND			
GERANYL ACETATE	0.007	ND			
GUAJOL	0.007	ND			
LIMONENE	0.007	ND			
LINALOOL	0.007	ND			
NEROL	0.007	ND			
OCIMENE	0.007	ND			
ALPHA-PHELLANDRENE	0.007	ND			
PULEGONE	0.007	ND			
SABINENE	0.007	ND			
SABINENE HYDRATE	0.007	ND			



**Terpenes**

**TESTED**

**Analyzed by** 1118 **Weight** 1.0197g **Extraction date** 01/16/20 **Extracted By** 1118  
**Analysis Method** -SOP.T.40.090  
**Analytical Batch** -DA009468TER  
**Instrument Used** : Liquid Injection GCMS QP2010  
**Batch Date** : 01/16/20

Reagent	Dilution	Consums. ID
052119.04	10	76124-662 280630187

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



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**Pesticides**

**PASSED**

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

<div></div>		Pesticides		PASSED
Analyzed by 585	Weight 1.0171g	Extraction date 01/16/20	Extracted By 1082	
Analysis Method -SOP.T.30.065, SOP.T.40.065 Analytical Batch - DA009497PES Instrument Used : LCMS E-SHI-039 Batch Date : 01/16/20				
Reagent 01513.04 011620.R09 011620.R10	Dilution		Consums. ID 180711	
SOP.T.30.065, SOP.T.40.065				







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**Residual Solvents**
**PASSED**

**Residual Solvents**
**PASSED**

SOLVENT	LOD	ACTION LEVEL (PPM)	PASS/FAIL	RESULT
PROPANE	120	2100	PASS	ND
BUTANES (N-BUTANE)	96	2000	PASS	ND
ETHYLENE OXIDE	0.6	5	PASS	ND
METHANOL	22.5	250	PASS	ND
ETHANOL	90	5000	PASS	4268.981
PENTANES (N-PENTANE)	67.5	750	PASS	ND
ETHYL ETHER	45	500	PASS	ND
ACETONE	67.5	750	PASS	ND
2-PROPANOL	45	500	PASS	ND
ACETONITRILE	5.4	60	PASS	ND
DICHLOROMETHANE	11.25	125	PASS	ND
N-HEXANE	4.5	250	PASS	ND
ETHYL ACETATE	36	400	PASS	ND
BENZENE	0.09	1	PASS	ND
HEPTANE	45	500	PASS	ND
TOLUENE	13.5	150	PASS	ND
CHLOROFORM	0.18	2	PASS	ND
1,2-DICHLOROETHANE	0.18	2	PASS	ND
TRICHLOROETHYLENE	2.25	25	PASS	ND
1,1-DICHLOROETHENE	1	8	PASS	ND
TOTAL XYLENES	13.5	150	PASS	ND

**Analyzed by** 850 **Weight** 0.0267g **Extraction date** 01/17/20 **Extracted By** 850

**Analysis Method** -SOP.T.40.032  
**Analytical Batch** -DA009504SOL  
**Instrument Used** : Headspace GCMS  
**Batch Date** : 01/16/20

Reagent	Dilution	Consums. ID
	1	00268767 161040-1 24152436

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 34 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).



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	<b>Mycotoxins</b>	<b>PASSED</b>
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Analyte	LOD	Result	Action Level (PPM)
AFLATOXIN G2	0.002	ND	
AFLATOXIN G1	0.002	ND	
AFLATOXIN B2	0.002	ND	
AFLATOXIN B1	0.002	ND	
OCHRATOXIN A+	0.002	ND	0.02
TOTAL AFLATOXINS	0.02	ND	0.02

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

**Analytical Batch -DA009499**

**Instrument Used : LCMS E-SHI-039**

**Batch Date : 01/16/20**

**Analyzed by** 585 **Weight** 1g **Extraction date** NA **Extracted By** NA

	<b>Microbials</b>	<b>PASSED</b>
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Analyte	LOD	Result
ASPERGILLUS_FLAVUS	10000	not present in 1 gram.
ASPERGILLUS_FUMIGATUS	10000	not present in 1 gram.
ASPERGILLUS_NIGER	10000	not present in 1 gram.
ASPERGILLUS_TERREUS	10000	not present in 1 gram.
ESCHERICHIA_COLI_SHIGELLA_SPP	10000	not present in 1 gram.
SALMONELLA_SPECIFIC_GENE	10000	not present in 1 gram.

**Analysis Method -SOP.T.40.043**

**Analytical Batch -DA009470MIC**

**Instrument Used : PathogenDX PCR\_Array Scanner**

**Batch Date : 01/16/20**

**Analyzed by** 513 **Weight** 1.0398g **Extraction date** 01/16/20 **Extracted By** 1082

	<b>Heavy Metals</b>	<b>PASSED</b>
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Reagent	Dilution	Consums. ID
010220.R09	50	
011420.R04		
010620.R02		
011520.R02		
011520.R03		
011520.R01		
011620.R01		
010220.R04		
111319.01		

Metal	LOD	Result	Action Level (PPM)
ARSENIC	0.01	ND	1.5
CADMIUM	0.01	ND	0.5
LEAD	0.01	ND	0.5
MERCURY	0.01	ND	3

**Analyzed by** 457 **Weight** 0.2696g **Extraction date** 01/16/20 **Extracted By** 457

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

**Analytical Batch -DA009469HEA**

**Instrument Used : ICPMS-2030**

**Batch Date : 01/16/20**

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.