



Sample: DA00318005-003

Harvest/Lot ID: B14W01

Seed to Sale #n/a

Batch Date :N/A

Batch#: B14W01

Sample Size Received: 10

Retail Product Size: 1

Ordered : 03/17/20

Sampled : 03/17/20

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

Sampling Method: SOP Client Method

PASSED

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Certificate of Analysis

Mar 20, 2020 | Green Roads

5150 SW 48TH WAY DAVIE
FL, USA 33314



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
NOT TESTED

MISC.

CANNABINOID RESULTS



Total THC

0.000%

THC/Container :0.000 mg



Total CBD

3.036%

CBD/Container :38.254 mg



Total Cannabinoids

3.047%

Total Cannabinoids/Container
:38.392 mg

CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
ND	ND	ND	ND	ND	0.011 %	ND	ND	3.036 %	ND	ND
ND	ND	ND	ND	ND	0.110 mg/g	ND	ND	30.360 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 03/18/20 LOD(ppm) 584 Extracted By

Analysis Method -SOP.T.40.013 Batch Date : 03/18/20 09:47:32
Analytical Batch -DA011054FIL Reviewed On - 03/18/20 11:32:23
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 SH-28/T Stereo Microscope is used for inspection.

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
450	3.1123g	03/18/20 11:03:09	965
Analysis Method -SOP.T.40.020, SOP.T.30.050			
Analytical Batch -DA011052POT		Reviewed On - 03/19/20 14:28:56	
Instrument Used : DA-LC-003		Batch Date : 03/18/20 09:42:25	
Reagent	Dilution	Consumers. ID	
022720.R11	400	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

03/20/2020

Signed On



Certificate of Analysis

PASSED

Green Roads

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FL, USA 33314

Telephone: (844) 747-3367

Email: LAURA@GREENROADSWORLD.COM

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

Sample Method : SOP Client Method

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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					
CARBOFURAN	0.01	ppm	0.1	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

Analyzed by
585

Weight
1.0798g

Extraction date
03/18/20 12:03:22

Extracted By
1082

Analysis Method - SOP.T.30.065, SOP.T.40.065,
SOP.T.40.060, SOP.T.40.070 and SOP.T.40.090 ,
SOP.T.30.065, SOP.T.40.065, SOP.T.40.060 and
SOP.T.40.090

Analytical Batch - DA011047PES

Reviewed On- 03/18/20 11:32:23

Instrument Used : DA-LCMS-001_DER
Batch Date : 03/18/20 09:34:02

Reagent

Dilution

Consums. ID

10

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.T.40.060 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)

Jorge Segredo

Lab Director

State License # n/a
ISO Accreditation # 97164



Signature

03/20/2020

Signed On



Certificate of Analysis

PASSED

Green Roads

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Telephone: (844) 747-3367

Email: LAURA@GREENROADSWORLD.COM

Sample : DA00318005-003

Harvest/LOT ID: B14W01

Batch# : B14W01

Sampled : 03/17/20

Ordered : 03/17/20

Sample Size Received : 10

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

Sample Method : SOP Client Method

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	Residual Solvents	PASSED
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	Residual Solvents	PASSED
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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	167.384
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	1000000	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	Weight	Extraction date	Extracted By
850	0.0228g	03/18/20 03:03:16	850
Analysis Method -SOP.T.40.032			
Analytical Batch -DA011062SQL		Reviewed On - 03/20/20 12:04:31	
Instrument Used : Headspace GCMS			
Batch Date : 03/18/20 13:21:22			

Reagent	Dilution	Consums. ID
	1	
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).		



Certificate of Analysis

PASSED

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FL, USA 33314
Telephone: (844) 747-3367
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Sample : DA00318005-003

Harvest/LOT ID: B14W01

Batch# : B14W01

Sampled : 03/17/20

Ordered : 03/17/20

Sample Size Received : 10

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

Sample Method : SOP Client Method

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	Mycotoxins	PASSED
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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 -DA011048MYC | Reviewed On - 03/20/20 16:34:41

Instrument Used : DA-LCMS-001_DER

Batch Date : 03/18/20 09:34:54

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

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T40.065 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.

Reagent	Consums. ID
122719.32	918C4-918J
013120.124	914C4-914AK
013120.312	929C6-929H
020320.56	50AX26219
013120.326	19323
013120.395	23819111
121719.26	190611634
122719.136	
020320.64	
013120.408	
121719.20	
013120.320	
022120.78	
022120.139	
022120.138	

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.

	Heavy Metals	PASSED
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Reagent	Reagent	Dilution
031720.R07	031820.R01	50
031720.R08	031020.R02	
031720.R02	111319.02	
031720.R03		
031820.R03		
031820.R02		

Analyte

ASPERGILLUS_FLAVUS
ASPERGILLUS_FUMIGATUS
ASPERGILLUS_NIGER
ASPERGILLUS_TERREUS
ESCHERICHIA_COLI_SHIGELLA_SPP
SALMONELLA_SPECIFIC_GENE

Result

not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.

Analysis Method -SOP.T.40.043

Analytical Batch -DA011053MIC | Reviewed On - 03/20/20 15:54:04

Instrument Used : PathogenDX PCR_Array Scanner

Batch Date : 03/18/20 09:44:44

Analyzed by	Weight	Extraction date	Extracted By
357	1.0906g	03/18/20 10:03:19	1082

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	0.2529g	03/18/20 10:03:05	457

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

Analytical Batch -DA011041HEA | Reviewed On - 03/19/20 10:10:15

Instrument Used : ICPMS-2030

Batch Date : 03/18/20 08:39:21

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
121619.17		181019-274
121619.11		SG298A