



# Certificate of Analysis

Sample: DA00313011-002  
 Harvest/Lot ID: M21820EL  
 Seed to Sale #n/a  
 Batch Date :N/A  
 Batch#: M21820EL  
 Sample Size Received: 48  
 Retail Product Size: 51  
 Ordered : 03/12/20  
 Sampled : 03/12/20  
 Completed: 03/19/20 Expires: 03/19/21  
 Sampling Method: SOP Client Method

Mar 19, 2020 | Green Roads

5150 SW 48TH WAY DAVIE  
 FL, USA 33314



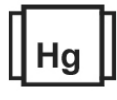
**PASSED**

Page 1 of 4

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  
**0.206%**  
CBD/Container :105.060 mg



Total Cannabinoids  
**0.206%**  
Total Cannabinoids/Container :105.060 mg

CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
ND	ND	ND	ND	ND	ND	ND	ND	0.206 %	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	2.060 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 03/16/20 LOD(ppm) 584 Extracted By 584  
 Analysis Method -SOP.T.40.013 Batch Date : 03/16/20 10:47:20  
 Analytical Batch -DA010996FIL Reviewed On - 03/16/20 16:10:17  
 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-2B/T Stereo Microscope is used for inspection.

Cannabinoid Profile Test

Analyzed by 1224 Weight 2.9416g Extraction date : 03/13/20 04:03:57 Extracted By : 574  
 Analysis Method -SOP.T.40.020, SOP.T.30.050 Reviewed On - 03/16/20 15:22:40  
 Analytical Batch -DA010958POT Instrument Used : DA-LC-003 Batch Date : 03/13/20 11:08:00

Reagent	Dilution	Consums. ID
022720.R11	40	180111 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).

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**Jorge Segredo**  
 Lab Director  
 State License # n/a  
 ISO Accreditation # 97164



Signature

03/19/2020

Signed On



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Sample Method : SOP Client Method

Page 2 of 4



## Pesticides

**PASSED**

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
DIMETHOATE	0.01	ppm	0.1	ND	DIAZANON	0.01	ppm	0.2	ND
CYPERMETHRIN	0.05	ppm	1	ND	MEVINPHOS	0.01	ppm	0.1	ND
CYFLUTHRIN	0.05	ppm	1	ND	MYCLOBUTANIL	0.01	ppm	3	ND
CHLORFENAPYR	0.01	ppm	0.1	ND	NALED	0.01	ppm	0.5	ND
METHYL PARATHION	0.005	ppm	0.1	ND	OXAMYL	0.01	ppm	0.5	ND
CAPTAN	0.07	ppm	3	ND	PACLOBUTRAZOL	0.01	ppm	0.1	ND
ABAMECTIN B1A	0.02	ppm	0.3	ND	PHOSMET	0.01	ppm	0.2	ND
ACEPHATE	0.001	ppm	3	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
DICHLORVOS	0.05	ppm	0.1	ND	PRALLETHRIN	0.05	ppm	0.4	ND
DIMETHOMORPH	0.005	ppm	3	ND	PROPICONAZOLE	0.01	ppm	1	ND
ACEQUINOCYL	0.01	ppm	2	ND	PROPOXUR	0.01	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	3	ND	PYRETHRINS	0.01	ppm	1	ND
ETHOPROPHOS	0.01	ppm	0.1	ND	PYRIDABEN	0.01	ppm	3	ND
ALDICARB	0.02	ppm	0.1	ND	SPINETORAM	0.01	PPM	3	ND
ETOFENPROX	0.01	ppm	0.1	ND	SPIROMESIFEN	0.01	ppm	3	ND
AZOXYSTROBIN	0.01	ppm	3	ND	SPIROTETRAMAT	0.02	ppm	3	ND
ETOXAZOLE	0.01	ppm	1.5	ND	SPIROXAMINE	0.01	ppm	0.1	ND
BIFENAZATE	0.01	ppm	3	ND	TEBUCONAZOLE	0.01	ppm	1	ND
FENHEXAMID	0.01	ppm	3	ND	THIACLOPRID	0.01	ppm	0.1	ND
FENOXYCARB	0.01	ppm	0.1	ND	THIAMETHOXAM	0.01	ppm	1	ND
BIFENTHRIN	0.01	ppm	0.5	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.1	ppm	20	ND
BOSCALID	0.01	PPM	3	ND	TOTAL PERMETHRIN	1	ppm	1	ND
FENPYROXIMATE	0.01	ppm	2	ND	TOTAL SPINOSAD	1	ppm	3	ND
CARBARYL	0.01	ppm	0.5	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
FIPRONIL	0.02	ppm	0.1	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					
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					
DAMINOZIDE	0.02	ppm	0.1	ND					

**Pesticides** **PASSED**

<b>Analyzed by</b> 585	<b>Weight</b> 1.0224g	<b>Extraction date</b> 03/13/20 01:03:23	<b>Extracted By</b> 357
<b>Analysis Method</b> - 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			
<b>Analytical Batch</b> - DA010955PES		<b>Reviewed On</b> - 03/16/20 16:10:17	
<b>Instrument Used</b> : DA-LCMS-001_DER			
<b>Batch Date</b> : 03/13/20 11:00:45			

<b>Reagent</b>	<b>Dilution</b>	<b>Consums. ID</b>
029720.03 032320.810 031220.811	10	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.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)

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**Jorge Segredo**  
Lab Director  
State License # n/a  
ISO Accreditation # 97164

Signature

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Sample Method : SOP Client Method

Page 3 of 4



## Residual Solvents

PASSED



## Residual Solvents

PASSED

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	5000	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 850 Weight 0.0250g Extraction date 03/13/20 05:03:03 Extracted By 850

Analysis Method -SOP.T.40.032  
Analytical Batch -DA010971SOL Reviewed On - 03/17/20 11:30:31  
Instrument Used : Headspace GCMS  
Batch Date : 03/13/20 17:12:07

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 Method : SOP Client Method

Page 4 of 4



**Mycotoxins**
PASSED

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 -DA010956 | Reviewed On - 03/16/20 17:16:16  
Instrument Used : DA-LCMS-001\_DER  
Batch Date : 03/13/20 11:02:20

Analyzed by	Weight	Extraction date	Extracted By
585	1g	03/13/20 03:03:07	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 <20µg/Kg.

**Consums. ID**

4603475C  
929C6-929H  
190611634

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

Reagent	Reagent	Dilution
030920.R16	030420.R01	50
031220.R12	031020.R02	
030920.R03	111319.02	
030920.R04		
030420.R03		
030920.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	0.304	0.5
MERCURY	0.02	ppm	ND	3

Metal	Result
ARSENIC	not present in 1 gram.
CADMIUM	not present in 1 gram.
LEAD	not present in 1 gram.
MERCURY	not present in 1 gram.

Analysis Method -SOP.T.40.050, SOP.T.30.052  
Analytical Batch -DA010946HEA | Reviewed On - 03/16/20 08:16:02  
Instrument Used : ICPMS-2030  
Batch Date : 03/13/20 08:48:26

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.



**Microbials**
PASSED

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	<100

Analysis Method -SOP.T.40.043  
Analytical Batch -DA011006MIC | Reviewed On - 03/19/20 11:33:55  
Instrument Used : (Micro) 25-27C Incubator,(Micro) 35-42C Incubator  
Batch Date : 03/16/20 20:13:22

Analyzed by	Weight	Extraction date	Extracted By
513	1.0340g	03/16/20 08:03:03	513

Reagent	Dilution	Consums. ID

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