



Certificate of Analysis

Jan 27, 2020 | Green Roads
5150 SW 48TH WAY DAVIE
FL, USA 33314



SAMPLE:DA00123004-005
Harvest/Lot ID: 01062519
Seed to Sale #n/a
Batch Date :N/A
Batch#: 01062519
Sample Size Received: 14 gram
Ordered : 01/21/20
Sampled : 01/21/20
Completed: 01/27/20 Expires: 01/27/21
Sampling Method: SOP Client Method

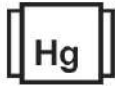
PASSED

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PRODUCT IMAGE SAFETY RESULTS



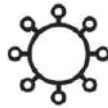
Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals
Solvents
PASSED



Filtration
NOT TESTED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
NOT TESTED

MISC.

CANNABINOID RESULTS



Total THC
0.000%

THC/Container :0.00 mg



Total CBD
0.147%

CBD/Container :20.58 mg



Total Cannabinoids
0.147%



CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	THCA	D9-THC
ND	ND	ND	ND	ND	ND	ND	ND	0.147 %	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	1.470 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 :
Analysis Method -SOP.T.40.020, SOP.T.30.050			
Analytical Batch -	Instrument Used : DA-LC-003		Batch Date : 01/23/20
Reagent	Dilution	Consums. ID	
123019.R09 070219.R15		76124-662 SFN-BX-1025 849C4-849AK 840C6-840H	

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

01/27/2020

Signed On



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FL, USA 33314

Telephone: (844) 747-3367

Email: LAURA@GREENROADSWORLD.COM

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Pesticides

PASSED

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

Pesticides **PASSED**

Analyzed by	Weight	Extraction date	Extracted By
Analysis Method - SOP.T.30.065, SOP.T.40.065, SOP.T40.060, SOP.T.40.070 and SOP.T.40.090 Analytical Batch - Instrument Used : LCMS E-SHI-039 Batch Date : 01/23/20			
Reagent	Dilution	Consums. ID	
101519.01 02120.814 02120.815		180711	
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.T40.060 Procedure for Pesticide Quantification Using LCMS). Volatile Pesticides may be tested with GCMSMS under SOP.T.40.070 and SOP.T.40.090.			

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Residual Solvents **PASSED**



Residual Solvents **PASSED**

SOLVENT	LOD	ACTION LEVEL (PPM)	PASS/FAIL	RESULT
ACETONE	67.5	750	PASS	ND
ACETONITRILE	5.4	60	PASS	ND
BENZENE	0.09	1	PASS	ND
2-PROPANOL	45	500	PASS	ND
BUTANES (N-BUTANE)	96	5000	PASS	ND
CHLOROFORM	0.18	2	PASS	ND
1,2-DICHLOROETHANE	0.18	2	PASS	ND
1,1-DICHLOROETHENE	1	8	PASS	ND
DICHLOROMETHANE	3.75	125	PASS	ND
ETHANOL	90	1000000	PASS	ND
ETHYL ACETATE	36	400	PASS	ND
ETHYL ETHER	45	500	PASS	ND
ETHYLENE OXIDE	0.6	5	PASS	ND
HEPTANE	45	5000	PASS	ND
METHANOL	22.5	250	PASS	ND
N-HEXANE	4.5	250	PASS	ND
PENTANES (N-PENTANE)	67.5	750	PASS	ND
PROPANE	120	5000	PASS	ND
TOLUENE	13.5	150	PASS	ND
TOTAL XYLENES	13.5	150	PASS	ND
TRICHLOROETHYLENE	2.25	25	PASS	ND

Analyzed by **Weight** **Extraction date** **Extracted By**

Analysis Method -SOP.T.40.032
Analytical Batch -
Instrument Used : Headspace GCMS
Batch Date : 01/23/20

Reagent	Dilution	Consums. ID
	1	00276446 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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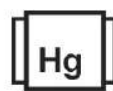
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Mycotoxins **PASSED**



Heavy Metals **PASSED**

Analyte	LOD	Result	Action Level (PPM)
AFLATOXIN G2	0.002	ND	0.02
AFLATOXIN G1	0.002	ND	0.02
AFLATOXIN B2	0.002	ND	0.02
AFLATOXIN B1	0.002	ND	0.02
OCHRATOXIN A+	0.002	ND	0.02

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

Analytical Batch -

Instrument Used : LCMS E-SHI-039

Batch Date : 01/23/20

Analyzed by Weight Extraction date Extracted By

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). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg.

Reagent	Dilution	Consums. ID
012120.R05	50	
012220.R20		
011620.R12		
012120.R03		
012120.R04		
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 Weight Extraction date Extracted By


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

Analytical Batch -

Instrument Used : ICPMS-2030

Batch Date : 01/23/20

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.



Microbials **PASSED**

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.
TOTAL_YEAST_AND_MOLD	100	not present in 1 gram.

Analysis Method -SOP.T.40.043

Analytical Batch -

Instrument Used : PathogenDX PCR_Array Scanner

Batch Date : 01/23/20

Analyzed by Weight Extraction date Extracted By

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.

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