



Certificate of Analysis

Mar 20, 2020 | Green Roads

5150 SW 48TH WAY DAVIE
FL, USA 33314



Sample: DA00313011-001

Harvest/Lot ID: L21320LO

Seed to Sale #n/a

Batch Date :N/A

Batch#: L21320LO

Sample Size Received: 174

Retail Product Size: 170

Ordered : 03/12/20

Sampled : 03/12/20

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

Sampling Method: SOP Client Method

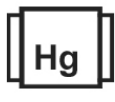
PASSED

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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
NOT TESTED

CANNABINOID RESULTS



Total THC

0.000%

THC/Container :0.000 mg



Total CBD

0.091%

CBD/Container :154.700 mg



Total Cannabinoids

0.091%

Total Cannabinoids/Container
:154.700 mg

CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
ND	ND	ND	ND	ND	ND	ND	ND	0.091 %	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	0.910 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
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Analyzed By	Weight	Extraction date	LOD(ppm)	Extracted By
584	1g	03/16/20		584
Analysis Method -SOP.T.40.013		Batch Date : 03/16/20 10:47:20		
Analytical Batch -DA010996FIL		Reviewed On - 03/16/20 16:10:23		
Instrument Used : Filth/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	Weight	Extraction date :	Extracted By :
1224	3.0744g	03/13/20 04:03:58	574
Analysis Method -SOP.T.40.020, SOP.T.30.050		Reviewed On - 03/16/20 15:20:25	
Analytical Batch -DA010958POT		Batch Date : 03/13/20 11:08:00	
Instrument Used : DA-LC-003			

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).

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



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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					
CLOFENTZINE	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 1.0050g		Extraction date 03/13/20 12:03:04	
Extracted By 357					
Analysis Method - SOP.T.30.065, SOP.T.40.065, SOP.T40.060, SOP.T.40.070 and SOP.T.40.090 , SOP.T.30.065, SOP.T.40.065, SOP.T40.060 and SOP.T.40.090					
Analytical Batch - DA010955PES					
Instrument Used - DA-LCMS-001_DER					
Batch Date : 03/13/20 11:00:45					
Reviewed On- 03/16/20 16:10:23					
Reagent		Dilution		Consums. ID	
020720.03		10		180111	
031220.R10				280653964	
031220.R11					
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. * 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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Completed : 03/20/20 **Expires:** 03/20/21

Sample Method : SOP Client Method

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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	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

	Residual Solvents	PASSED
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Analyzed by 850 **Weight** 0.0200g **Extraction date** 03/13/20 05:03:01 **Extracted By** 850

Analysis Method -SOP.T.40.032

Analytical Batch -DA010971SOL

Reviewed On - 03/17/20 11:20:50

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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Batch# : L21320LO

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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 -DA010956 | **Reviewed On -** 03/16/20 17:16:11

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 03:03:06	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 <20ug/Kg.

	Microbials	PASSED
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Analyte

 ASPERGILLUS_FLAVUS
 ASPERGILLUS_FUMIGATUS
 ASPERGILLUS_NIGER
 ASPERGILLUS_TERREUS
 ESCHERICHIA_COLI_SHIGELLA_SPP
 SALMONELLA_SPECIFIC_GENE
 STAPHYLOCOCCUS_AUREUS
 TOTAL_YEAST_AND_MOLD

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.
 not present in 1 gram.
 <100

Analysis Method -SOP.T.40.043

Analytical Batch -DA011006MIC | **Reviewed On -** 03/20/20 14:02:04

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	1.0970g	03/16/20 08:03:02	513

Reagent	Dilution	Consums. ID
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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
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Reagent	Reagent	Dilution
030920.R16 031220.R12 030920.R03 030920.R04 030420.R03 030920.R02	030420.R01 031020.R02 111319.02	50

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	0.306	0.5
MERCURY	0.02	ppm	ND	3

Analyzed by	Weight	Extraction date	Extracted By
53	0.2681g	NA	NA

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

Analytical Batch -DA010946HEA | **Reviewed On -** 03/16/20 08:15:52

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.