



Certificate of Analysis

Sample: DA00313011-010
 Harvest/Lot ID: L21420YY
 Seed to Sale #n/a
 Batch Date :N/A
 Batch#: L21420YY
 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

Mar 20, 2020 | Green Roads

5150 SW 48TH WAY DAVIE
 FL, USA 33314



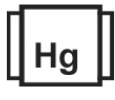
PASSED

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
0.088%
CBD/Container :149.600 mg



Total Cannabinoids
0.088%
Total Cannabinoids/Container :149.600 mg

CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
ND	ND	ND	ND	ND	ND	ND	ND	0.088 %	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	0.880 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 11:02:20
 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 3.0290g Extraction date : 03/13/20 04:03:52 Extracted By : 574
 Analysis Method -SOP.T.40.020, SOP.T.30.050 Reviewed On - 03/16/20 15:24:33
 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).

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

5150 SW 48TH WAY DAVIE
FL, USA 33314

Telephone: (844) 747-3367

Email: LAURA@GREENROADSWORLD.COM

Sample : DA00313011-010

Harvest/LOT ID: L21420YY

Batch# : L21420YY

Sampled : 03/12/20

Ordered : 03/12/20

Sample Size Received : 174

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

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	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
ETOXAZOLE	0.01	ppm	1.5	ND	SPINETORAM	0.01	PPM	3	ND
BIFENAZATE	0.01	ppm	3	ND	SPIROMESIFEN	0.01	ppm	3	ND
FENHEXAMID	0.01	ppm	3	ND	SPIROTETRAMAT	0.02	ppm	3	ND
FENOXYCARB	0.01	ppm	0.1	ND	SPIROXAMINE	0.01	ppm	0.1	ND
BIFENTHRIN	0.01	ppm	0.5	ND	TEBUCONAZOLE	0.01	ppm	1	ND
BOSCALID	0.01	PPM	3	ND	THIACLOPRID	0.01	ppm	0.1	ND
FENPYROXIMATE	0.01	ppm	2	ND	THIAMETHOXAM	0.01	ppm	1	ND
CARBARYL	0.01	ppm	0.5	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.1	ppm	20	ND
FIPRONIL	0.02	ppm	0.1	ND	TOTAL PERMETHRIN	1	ppm	1	ND
FLONICAMID	0.01	ppm	2	ND	TOTAL SPINOSAD	1	ppm	3	ND
CARBOFURAN	0.01	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	3	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 1.0660g	Extraction date 03/13/20 01:03:23	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 - DA010955PES		Reviewed On - 03/16/20 11:02:20	
Instrument Used : DA-LCMS-001_DER			
Batch Date : 03/13/20 11:00:45			

Reagent 029720.03 031220.R10 031220.R11	Dilution 10	Consums. ID 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)

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

5150 SW 48TH WAY DAVIE
FL, USA 33314

Telephone: (844) 747-3367

Email: LAURA@GREENROADSWORLD.COM

Sample : DA00313011-010

Harvest/LOT ID: L21420YY

Batch# : L21420YY

Sampled : 03/12/20

Ordered : 03/12/20

Sample Size Received : 174

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

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** 0.0233g **Extraction date** 03/13/20 05:03:11 **Extracted By** 850
Analysis Method -SOP.T.40.032
Analytical Batch -DA010971SOL **Reviewed On** - 03/17/20 11:55:35
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).

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

5150 SW 48TH WAY DAVIE
FL, USA 33314

Telephone: (844) 747-3367

Email: LAURA@GREENROADSWORLD.COM

Sample : DA00313011-010

Harvest/LOT ID: L21420YY

Batch# : L21420YY

Sampled : 03/12/20

Ordered : 03/12/20

Sample Size Received : 174

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

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 17:16:55
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 03:03:14	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.



Microbials
PASSED

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.
not present in 1 gram.
148

Analysis Method -SOP.T.40.043
Analytical Batch -DA011006MIC | Reviewed On - 03/19/20 11:38:02
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	1.0887g	03/16/20 08:03:11	513

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	0.303	0.5
MERCURY	0.02	ppm	ND	3

Analyzed by	Weight	Extraction date	Extracted By
53	0.2589g	NA	NA

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA010946HEA | Reviewed On - 03/16/20 08:17:54
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.

Reagent	Dilution	Consums. ID

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