



Certificate of Analysis

Jan 08, 2020 | Green Roads

5150 SW 48TH WAY DAVIE
FL, USA 33314



SAMPLE:DA00106004-002

Harvest/Lot ID: 516719

Seed to Sale #N/A

Batch Date :N/A

Batch#: 516719

Sample Size Received: 15

Ordered : 01/03/20

Sampled : 01/03/20

Completed: 01/08/20 Expires: 01/08/21

Sampling Method: SOP Client Method

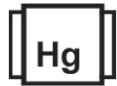
PASSED

Page 1 of 5

PRODUCT IMAGE SAFETY RESULTS



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
NOT TESTED



Residuals Solvents
PASSED



Filtration
PASSED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
TESTED

MISC.

CANNABINOID RESULTS



Total THC
0.000%

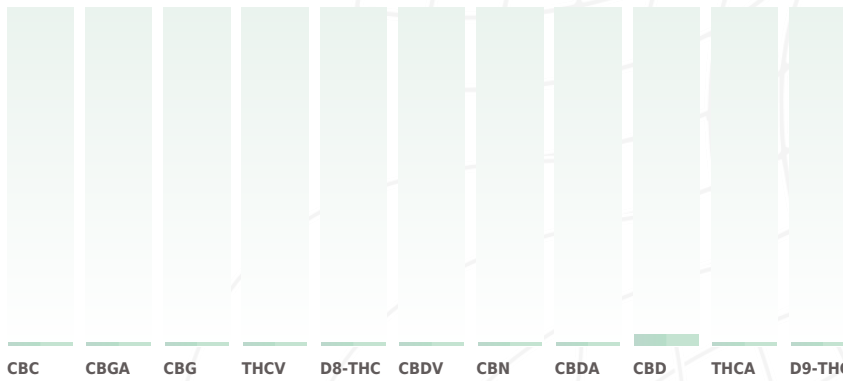


Total CBD
3.115%



Total Cannabinoids
3.125%

ND	ND	ND	ND	ND	0.010 %	ND	ND	3.115 %	ND	ND
ND	ND	ND	ND	ND	0.100 mg/g	ND	ND	31.150 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



Filtration PASSED

Analyte	Weight	Extraction date	LOD	Extracted By
584	1g	01/06/20	584	584

Analysis Method -SOP.T.40.013
Analytical Batch -DA009167FIL
Instrument Used :

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 use for inspection.

Cannabinoid Profile Test

Analyzed by 1224	Weight 3.0351g	Extraction date : 01/06/20	Extracted By : 965
Analysis Method -SOP.T.40.020, SOP.T.30.050		Batch Date : 01/06/20	
Analytical Batch -DA009153POT		Instrument Used : DA-LC-003	

Reagent	Dilution	Consums. ID
123019.R09 010320.R05 010320.R04	400	76124-662 5FN-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).

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

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

Signature

01/08/2020

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 : DA00106004-002
Harvest/LOT ID: 516719

Batch# : 516719
Sampled : 01/03/20
Ordered : 01/03/20

Sample Size received : 15
Completed : 01/08/20 Expires : 01/08/21
Sample Method : SOP Client Method

Page 2 of 5

Terpenes **TESTED**

Terpenes	LOD	TEST RESULT (%)	Terpenes	LOD	TEST RESULT (%)
ALPHA-CEDRENE	0.007	ND	TERPINEOL	0.007	ND
ALPHA-HUMULENE	0.007	ND	TERPINOLENE	0.007	ND
ALPHA-PINENE	0.007	ND	BETA-CARYOPHYLLENE	0.007	ND
ALPHA-TERPINENE	0.007	ND	TRANS-NEROLIDOL	0.007	ND
BETA-MYRCENE	0.007	ND	VALENCENE	0.007	ND
BETA-PINENE	0.007	ND			
BORNEOL	0.013	ND			
CAMPHENE	0.007	ND			
CAMPHOR	0.013	ND			
CARYOPHYLLENE OXIDE	0.007	ND			
CEDROL	0.007	ND			
ALPHA-BISABOLOL	0.007	ND			
ISOPULEGOL	0.007	ND			
CIS-NEROLIDOL	0.007	ND			
3-CARENE	0.007	ND			
FENCHYL ALCOHOL	0.007	ND			
HEXAHYDROTHYMOL	0.007	ND			
EUCALYPTOL	0.007	ND			
ISOBORNEOL	0.007	ND			
FARNESENE	0.007	ND			
FENCHONE	0.007	ND			
GAMMA-TERPINENE	0.007	ND			
GERANIOL	0.007	ND			
GERANYL ACETATE	0.007	ND			
GUAJOL	0.007	ND			
LIMONENE	0.007	ND			
LINALOOL	0.007	ND			
NEROL	0.007	ND			
OCIMENE	0.007	ND			
ALPHA-PHELLANDRENE	0.007	ND			
PULEGONE	0.007	ND			
SABINENE	0.007	ND			
SABINENE HYDRATE	0.007	ND			

Terpenes **TESTED**

Analyzed by 1118 Weight 1.0411g Extraction date 01/06/20 Extracted By 1118

Analysis Method -SOP.T.40.090
Analytical Batch -DA009144TER
Instrument Used : Liquid Injection GCMS QP2010
Batch Date : 01/06/20

Reagent	Dilution	Consums. ID
052119.04	10	76124-662 280630187

Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography - Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.091 Terpenoid Analysis Via GC/MS.

Total 0

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

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

Signature

01/08/2020

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 : DA00106004-002
Harvest/LOT ID: 516719

Batch# : 516719
Sampled : 01/03/20
Ordered : 01/03/20

Sample Size received : 15
Completed : 01/08/20 Expires : 01/08/21
Sample Method : SOP Client Method


Page 3 of 5



Pesticides

PASSED

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

Pesticides			
			PASSED
Analyzed by 585	Weight 1.0127g	Extraction date 01/06/20	Extracted By 357
Analysis Method -SOP.T.30.065, SOP.T.40.065			
Analytical Batch - DA009154PES			
Instrument Used : LCMS E-SHI-039			
Batch Date : 01/06/20			
Reagent 101513.04 010220.N05 010220.N05	Dilution 10	Consums. ID 180711	
SOP.T.30.065, SOP.T.40.065			

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

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



Signature

01/08/2020

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 : DA00106004-002
Harvest/LOT ID: 516719

Batch# : 516719
Sampled : 01/03/20
Ordered : 01/03/20

Sample Size received : 15
Completed : 01/08/20 Expires : 01/08/21
Sample Method : SOP Client Method

Page 4 of 5

Residual Solvents PASSED

Residual Solvents PASSED

SOLVENT	LOD	ACTION LEVEL (PPM)	PASS/FAIL	RESULT
PROPANE	120	2100	PASS	ND
BUTANES (N-BUTANE)	96	2000	PASS	ND
ETHYLENE OXIDE	0.6	5	PASS	ND
METHANOL	22.5	250	PASS	ND
ETHANOL	90	5000	PASS	ND
PENTANES (N-PENTANE)	67.5	750	PASS	ND
ETHYL ETHER	45	500	PASS	ND
ACETONE	67.5	750	PASS	ND
2-PROPANOL	45	500	PASS	ND
ACETONITRILE	5.4	60	PASS	ND
DICHLOROMETHANE	11.25	125	PASS	ND
N-HEXANE	4.5	250	PASS	ND
ETHYL ACETATE	36	400	PASS	ND
BENZENE	0.09	1	PASS	ND
HEPTANE	45	500	PASS	ND
TOLUENE	13.5	150	PASS	ND
CHLOROFORM	0.18	2	PASS	ND
1,2-DICHLOROETHANE	0.18	2	PASS	ND
TRICHLOROETHYLENE	2.25	25	PASS	ND
1,1-DICHLOROETHENE	1	8	PASS	ND
TOTAL XYLENES	13.5	150	PASS	ND

Analyzed by 850 Weight 0.0219g Extraction date 01/07/20 Extracted By 850

Analysis Method -SOP.T.40.032
Analytical Batch -DA009169SOL
Instrument Used : Headspace GCMS
Batch Date : 01/06/20

Reagent	Dilution	Consums. ID
	1	00268767 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).

Signature

01/08/2020

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 : DA00106004-002
Harvest/LOT ID: 516719

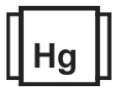
Batch# : 516719
Sampled : 01/03/20
Ordered : 01/03/20

Sample Size received : 15
Completed : 01/08/20 Expires : 01/08/21
Sample Method : SOP Client Method

Page 5 of 5



Microbials **PASSED**



Heavy Metals **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 -DA009147MIC
Instrument Used : PathogenDX PCR_Array Scanner
Batch Date : 01/06/20

Analyzed by	Weight	Extraction date	Extracted By
513	1.0463g	01/06/20	357

Reagent	Dilution	Consums. ID
010220.R09	50	
010220.R07		
010620.R02		
121319.R05		
010320.R03		
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
457	0.2775g	01/06/20	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA009151HEA
Instrument Used : ICPMS-2030
Batch Date : 01/06/20

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.

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

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

Signature

01/08/2020

Signed On