



Certificate of Analysis

Jan 22, 2020 | Green Roads

 601 Fairway Drive Deerfield Beach
 Florida, United States 33441


SAMPLE:DA00121019-001

Harvest/Lot ID: A10W01

Seed to Sale #N/A

Batch Date :N/A

Batch#: BMR0047

Sample Size Received: 35.1 gram

Ordered : 01/21/20

Sampled : 01/21/20

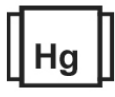
Completed: 01/22/20 Expires: 01/22/21

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
TESTED

MISC.

CANNABINOID RESULTS


 Total THC
0.000%

 Total CBD
2.155%

 Total Cannabinoids
2.164%


CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	THCA	D9-THC
ND	ND	0.010 %	ND	ND	ND	ND	ND	2.155 %	ND	ND
ND	ND	0.100 mg/g	ND	ND	ND	ND	ND	21.550 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 :
1224	3.0243g	NA	NA
Analysis Method -SOP.T.40.020, SOP.T.30.050			
Analytical Batch -DA009573POT		Instrument Used : DA-LC-003	
		Batch Date : 01/21/20	

Reagent	Dilution	Consums. ID
011020.R10	400	76124-662
011520.R06		SFN-BX-1025
011520.R05		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

01/22/2020

Signed On



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Terpenes

TESTED

Terpenes	LOD	TEST RESULT (%)
ALPHA-CEDRENE	0.007	ND
ALPHA-HUMULENE	0.007	ND
ALPHA-PINENE	0.007	ND
ALPHA-TERPINENE	0.007	ND
BETA-MYRCENE	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	Weight	Extraction date	Extracted By
1118	0.9848g	01/21/20	1118
Analysis Method -SOP.T.40.090			
Analytical Batch -DA009574TER			
Instrument Used : Liquid Injection GCMS QP2010			
Batch Date : 01/21/20			

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



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Pesticides

PASSED

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

<div></div>		Pesticides		PASSED	
Analyzed by 585		Weight 1.0639g		Extraction date 01/21/20	
Extracted By 1082					
Analysis Method -SOP.T.30.065, SOP.T.40.065					
Analytical Batch - DA009585PES					
Instrument Used : LCMS E-SHI-039					
Batch Date : 01/21/20					
Reagent <div>001519.046 012120.R14 012120.R15</div>		Dilution		Consums. ID 180711	
SOP.T.30.065, SOP.T.40.065					



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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	3356.938
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** 0.0248g **Extraction date** 01/21/20 **Extracted By** 584

Analysis Method -SOP.T.40.032
Analytical Batch -DA009588SOL
Instrument Used : Headspace GCMS
Batch Date : 01/21/20

Reagent	Dilution	Consums. ID
	1	00276446 160861-1 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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	Mycotoxins	PASSED
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Analyte	LOD	Result	Action Level (PPM)
AFLATOXIN G2	0.002	ND	
AFLATOXIN G1	0.002	ND	
AFLATOXIN B2	0.002	ND	
AFLATOXIN B1	0.002	ND	
OCHRATOXIN A+	0.002	ND	0.02
TOTAL AFLATOXINS	0.02	ND	0.02

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

Analytical Batch -DA009586

Instrument Used : LCMS E-SHI-039

Batch Date : 01/21/20

Analyzed by	Weight	Extraction date	Extracted By
585	1g	NA	NA

	Microbials	PASSED
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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.

Analysis Method -SOP.T.40.043

Analytical Batch -DA009592MIC

Instrument Used : PathogenDX PCR_Array Scanner

Batch Date : 01/21/20

Analyzed by	Weight	Extraction date	Extracted By
513	1.1493g	01/21/20	513

	Heavy Metals	PASSED
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Reagent	Dilution	Consums. ID
012120.R05	50	
011720.R08		
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	0.035	0.5
MERCURY	0.01	ND	3

Analyzed by	Weight	Extraction date	Extracted By
396	0.2571g	01/21/20	457

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

Analytical Batch -DA009563HEA

Instrument Used : ICPMS-2030

Batch Date : 01/21/20

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.