



Certificate of Analysis

Feb 20, 2020 | Green Roads

601 Fairway Drive Deerfield Beach
Florida, United States 33441


SAMPLE:DA00217009-002

Harvest/Lot ID: B05W01

Seed to Sale #N/A

Batch Date :N/A

Batch#: BMR0049

Sample Size Received: 35.1 gram

Ordered : 02/14/20

Sampled : 02/14/20

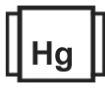
Completed: 02/20/20 Expires: 02/20/21

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

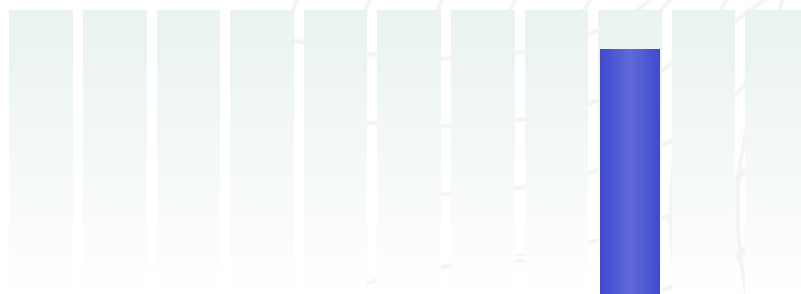
Terpenes
TESTED

MISC.

CANNABINOID RESULTS


Total THC
0.000%

Total CBD
0.875%

Total Cannabinoids
0.875%


CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
ND	ND	ND	ND	ND	ND	ND	ND	0.875 %	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	8.750 mg/g	ND	ND
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0001	0.0001	0.001
ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

	Filtration	PASSED
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Analyzed By 584 Weight 1g Extraction date 02/17/20 LOD(ppm) 584 Extracted By 584

Analysis Method -SOP.T.40.013 Batch Date : 02/17/20
Analytical Batch -DA010307FIL Reviewed On - 02/17/20 12:27:56
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-28/T Stereo Microscope is used for inspection.

Cannabinoid Profile Test

Analyzed by 1224 Weight 3.0415g Extraction date : 02/19/20 11:02:09 Extracted By : 574

Analysis Method -SOP.T.40.020, SOP.T.30.050 Reviewed On - 02/20/20 10:00:56
Analytical Batch -DA010361POT Instrument Used : DA-LC-003 Batch Date : 02/19/20 10:14:09

Reagent	Dilution	Consumers. ID
021820.R02		76124-662
021320.R15		SFN-BX-1025
021320.R14		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. 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

02/20/2020

Signed On



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PASSED

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Sample Method : SOP Client Method

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Terpenes

TESTED

Terpenes	LOD	Units	TEST RESULT (%)	Terpenes	LOD	Units	TEST RESULT (%)
ALPHA-CEDRENE	0.007	%	ND	EUCALYPTOL	0.007	%	ND
ALPHA-HUMULENE	0.007	%	ND	ISOBORNEOL	0.007	%	ND
ALPHA-PINENE	0.007	%	ND	HEXAHYDROTHYMOL	0.007	%	ND
ALPHA-TERPINENE	0.007	%	ND	FENCHYL ALCOHOL	0.007	%	ND
BETA-MYRCENE	0.007	%	ND	3-CARENE	0.007	%	ND
BETA-PINENE	0.007	%	ND	CIS-NEROLIDOL	0.007	%	ND
BORNEOL	0.013	%	ND	ISOPULEGOL	0.007	%	ND
CAMPHENE	0.007	%	ND				
CAMPHOR	0.013	%	ND				
CARYOPHYLLENE OXIDE	0.007	%	ND				
CEDROL	0.007	%	ND				
ALPHA-BISABOLOL	0.007	%	ND				
SABINENE	0.007	%	ND				
SABINENE HYDRATE	0.007	%	ND				
TERPINEOL	0.007	%	ND				
TERPINOLENE	0.007	%	ND				
BETA-CARYOPHYLLENE	0.007	%	ND				
TRANS-NEROLIDOL	0.007	%	ND				
VALENCENE	0.007	%	ND				
PULEGONE	0.007	%	ND				
ALPHA-PHELLANDRENE	0.007	%	ND				
OCIMENE	0.007	%	ND				
NEROL	0.007	%	ND				
LINALOOL	0.007	%	ND				
LIMONENE	0.007	%	ND				
GUAIOL	0.007	%	ND				
GERANYL ACETATE	0.007	%	ND				
GERANIOL	0.007	%	ND				
GAMMA-TERPINENE	0.007	%	ND				
FENCHONE	0.007	%	ND				
FARNESENE	0.007	%	ND				
Total	0						



Terpenes

TESTED

Analyzed by 1351 **Weight** 1.0045g **Extraction date** 02/17/20 06:02:46 **Extracted By** 1351

Analysis Method -SOP.T.40.090
Analytical Batch -DA010279TER **Reviewed On** - 02/19/20 08:03:17
Instrument Used : Liquid Injection GCMS QP2020 (E-SHI-128)
Batch Date : 02/17/20 08:10:51

Reagent	Dilution	Consums. ID
010620.R06	10	180711 SFN-BX-1025

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.



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Harvest/LOT ID: B05W01

Batch# : BMR0049

Sampled : 02/14/20

Ordered : 02/14/20

Sample Size received : 35.1 gram

Completed : 02/20/20 **Expires :** 02/20/21

Sample Method : SOP Client Method


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Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.02	ppm	0.3	ND	NALED	0.01	ppm	0.5	ND
ACEPHATE	0.001	ppm	3	ND	OXAMYL	0.01	ppm	0.5	ND
ACEQUINOCYL	0.01	ppm	2	ND	PACLOBUTRAZOL	0.01	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	3	ND	PHOSMET	0.01	ppm	0.2	ND
ALDICARB	0.02	ppm	0.1	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
AZOXYSTROBIN	0.01	ppm	3	ND	PRALLETHRIN	0.05	ppm	0.4	ND
BIFENAZATE	0.01	ppm	3	ND	PROPICONAZOLE	0.01	ppm	1	ND
BIFENTHRIN	0.01	ppm	0.5	ND	PROPOXUR	0.01	ppm	0.1	ND
BOSCALID	0.01	PPM	3	ND	PYRETHRINS	0.01	ppm	1	ND
CARBARYL	0.01	ppm	0.5	ND	PYRIDABEN	0.01	ppm	3	ND
CARBOFURAN	0.01	ppm	0.1	ND	SPINETORAM	0.01	PPM	3	ND
CHLORANTRANILIPROLE	0.01	ppm	3	ND	SPIROMESIFEN	0.01	ppm	3	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	SPIROTETRAMAT	0.02	ppm	3	ND
CLOFENTEZINE	0.01	ppm	0.5	ND	SPIROXAMINE	0.01	ppm	0.1	ND
COUMAPHOS	0.005	ppm	0.1	ND	TEBUCONAZOLE	0.01	ppm	1	ND
DAMINOZIDE	0.02	ppm	0.1	ND	THIACLOPRID	0.01	ppm	0.1	ND
DIAZANON	0.01	ppm	0.2	ND	THIAMETHOXAM	0.01	ppm	1	ND
DICHLORVOS	0.05	ppm	0.1	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.1	ppm	20	ND
DIMETHOATE	0.01	ppm	0.1	ND	TOTAL PERMETHRIN	1	ppm	1	ND
DIMETHOMORPH	0.005	ppm	3	ND	TOTAL SPINOSAD	1	ppm	3	ND
ETHOPROPHOS	0.01	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
ETOFENPROX	0.01	ppm	0.1	ND					
ETOXAZOLE	0.01	ppm	1.5	ND					
FENHEXAMID	0.01	ppm	3	ND					
FENOXYCARB	0.01	ppm	0.1	ND					
FENPYROXIMATE	0.01	ppm	2	ND					
FIPRONIL	0.02	ppm	0.1	ND					
FLONICAMID	0.01	ppm	2	ND					
FLUDIOXONIL	0.01	ppm	3	ND					
HEXYTHIAZOX	0.01	ppm	2	ND					
IMAZALIL	0.01	ppm	0.1	ND					
IMIDACLOPRID	0.01	ppm	3	ND					
KRESOXIM-METHYL	0.01	ppm	1	ND					
MALATHION	0.01	ppm	2	ND					
METALAXYL	0.01	ppm	3	ND					
METHIOCARB	0.01	ppm	0.1	ND					
METHOMYL	0.01	ppm	0.1	ND					
MEVINPHOS	0.01	ppm	0.1	ND					
MYCLOBUTANIL	0.01	ppm	3	ND					

<div></div>	<div>Pesticides</div>	<div>PASSED</div>	
<div>Analyzed by 585</div>	<div>Weight 1.1280g</div>	<div>Extraction date 02/17/20 12:02:07</div>	<div>Extracted By 1082</div>
<div>Analysis Method -SOP.T.30.065, SOP.T.40.065, SOP.T40.060, SOP.T.40.070 and SOP.T.40.090 Analytical Batch - DA010295PES Instrument Used : DA-LCMS-001_DER Batch Date : 02/17/20 10:05:30</div>			
<div>Reagent 012120.26 020320.809 020720.803</div>	<div>Dilution 10</div>	<div>Consums. ID 180711</div>	
<div>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.</div>			



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Harvest/LOT ID: B05W01

Batch# : BMR0049

Sampled : 02/14/20

Ordered : 02/14/20

Sample Size received : 35.1 gram

Completed : 02/20/20 **Expires :** 02/20/21

Sample Method : SOP Client Method

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Residual Solvents
PASSED

Residual Solvents
PASSED

SOLVENT	LOD	Units	ACTION LEVEL (PPM)	PASS/FAIL	RESULT
BUTANES (N-BUTANE)	96	ppm	5000	PASS	ND
CHLOROFORM	0.18	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.18	ppm	2	PASS	ND
1,1-DICHLOROETHENE	1	ppm	8	PASS	ND
DICHLOROMETHANE	3.75	ppm	125	PASS	ND
ETHANOL	90	ppm	1000000	PASS	1135.374
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
ACETONE	67.5	ppm	750	PASS	ND
PROPANE	120	ppm	5000	PASS	ND
ACETONITRILE	5.4	ppm	60	PASS	ND
TOLUENE	13.5	ppm	150	PASS	ND
BENZENE	0.09	ppm	1	PASS	ND
TOTAL XYLENES	13.5	ppm	150	PASS	ND
2-PROPANOL	45	ppm	500	PASS	ND
TRICHLOROETHYLENE	2.25	ppm	25	PASS	ND

Analyzed by
850

Weight
0.0200g

Extraction date
02/17/20 03:02:42

Extracted By
850

Analysis Method -SOP.T.40.032
Analytical Batch -DA010313SOL
Reviewed On - 02/18/20 13:08:55
Instrument Used : Headspace GCMS 2
Batch Date : 02/17/20 15:14:54
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 21 Residual solvents.(Method: SOP.T.30.032 Residual Solvents Analysis via GC-MS).



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Harvest/LOT ID: B05W01

Batch# : BMR0049

Sampled : 02/14/20

Ordered : 02/14/20

Sample Size received : 35.1 gram

Completed : 02/20/20 Expires : 02/20/21

Sample Method : SOP Client Method

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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 -DA010299MYC | Reviewed On - 02/18/20 12:18:13

Instrument Used : DA-LCMS-001_DER

Batch Date : 02/17/20 10:08:09

Analyzed by	Weight	Extraction date	Extracted By
585	1g	02/18/20 12:02:09	585

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). Aflatoxin B1, B2, G1, and G2 must individually be <20ug/Kg. Ochratoxins must be <20ug/Kg.

Reagent

013120.73
122719.125
020420.359
020420.369
122719.32
013120.64
122719.49
122719.52
122719.66
013120.113
013120.143
020420.371
122719.65

Consums. ID

181207119C
918C4
923C4-923AK
929C6-929H
50AX26219
19323
23819111
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

Microbials

PASSED

Analyte	Result
ASPERGILLUS_FLAVUS	not present in 1 gram.
ASPERGILLUS_FUMIGATUS	not present in 1 gram.
ASPERGILLUS_NIGER	not present in 1 gram.
ASPERGILLUS_TERREUS	not present in 1 gram.
ESCHERICHIA_COLI_SHIGELLA_SPP	not present in 1 gram.
SALMONELLA_SPECIFIC_GENE	not present in 1 gram.
TOTAL_YEAST_AND_MOLD	not present in 1 gram.

Analysis Method -SOP.T.40.043

Analytical Batch -DA010287MIC | Reviewed On - 02/18/20 16:31:08

Instrument Used : PathogenDX PCR_Array Scanner,PathogenDX PCR_DA-013

Batch Date : 02/17/20 08:57:09

Analyzed by	Weight	Extraction date	Extracted By
513	1.0176g	02/17/20 11:02:09	1082

Reagent	Dilution	Consums. ID
021320.R13		181019-274

Reagent	Reagent	Dilution
021720.R02 021720.R01 021320.R11 021720.R03 012920.R03 020520.R01	021420.R01 111319.01 012920.R01	50

Metal	LOD	Units	Result	Action Level (PPM)
ARSENIC	0.02	ppm	ND	1.5
CADMIUM	0.02	ppm	ND	0.5
LEAD	0.02	ppm	ND	0.5
MERCURY	0.02	ppm	ND	3

Analyzed by	Weight	Extraction date	Extracted By
457	0.2553g	02/17/20 01:02:42	457

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

Analytical Batch -DA010282HEA | Reviewed On - 02/18/20 08:48:03

Instrument Used : ICPMS-2030 B

Batch Date : 02/17/20 08:31:14

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.