

GRW 150 MG CBD MUSCLE & JOINT CREAM

**Kaycha Labs** 

Matrix: Derivative

Sample: DA00213005-001 Harvest/Lot ID: A28W01 Seed to Sale #N/A Batch Date : N/A Batch#: BMR0025

Sample Size Received: 30.3 **Retail Product Size: 30.3** 

> Ordered: 02/12/20 Sampled: 02/12/20

Completed: 04/21/20 Expires: 04/21/21 Sampling Method: SOP Client Method

PASSED

Page 1 of 5

# Certificate of Analysis

Apr 21, 2020 | Green Roads

601 Fairway Drive Deerfield Beach Florida, United States 33441



PRODUCT IMAGE

X

SAFETY RESULTS









Heavy Metals PASSED



Microbials



Mycotoxins



Solvents **PASSED** 



**PASSED** 



Water Activity



Moisture **NOT TESTED** 



MISC.

TESTED

#### CANNABINOID RESULTS



**Total THC** 0.000%



Total CBD 0.463%



**Total Cannabinoids** 0.463%



Filth

**PASSED** 

**Analyzed By** Weight Extraction date LOD(ppm) Extracted By 02/14/20

Batch Date: 02/14/20 08:33:42 Analysis Method -SOP.T.40.013 Analytical Batch -DA010238FIL Reviewed On - 02/14/20 08:34:43 Instrument Used: Filth/Foreign Material Microscope



#### **Cannabinoid Profile Test**

Analyzed by Weight Extraction date : Extracted By :

Analysis Method -SOP.T.40.020, SOP.T.30.050 Reviewed On - 02/14/20 11:07:52 Analytical Batch -DA010217POT Instrument Used : DA-LC-003 CBD Batch Date: 02/13/20 09:28:21

Reagent Dilution Consums. ID 021120.R16 76124-662 SFN-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).

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Jorge Segredo Lab Director

State License # n/a ISO Accreditation # 97164



04/21/2020

Signature Signed On



GRW 150 MG CBD MUSCLE & JOINT CREAM

Matrix: Derivative



## **Certificate of Analysis**

**PASSED** 

601 Fairway Drive Deerfield Beach Florida, United States 33441 **Telephone:** (954) 609-5537 Email: ashley@greenroads.com

Sample : DA00213005-001 Harvest/LOT ID: A28W01

Batch#:BMR0025 Sampled: 02/12/20 Ordered: 02/12/20

Sample Size Received: 30.3 Completed: 04/21/20 Expires: 04/21/21

Sample Method: SOP Client Method

Page 2 of 5



### **Terpenes**

## **TESTED**

Terpenes	LOD	Units	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
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	%	0.106
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

Terpenes	LOD	Units		Result (%)	
EUCALYPTOL	0.007	%	ND		
ISOBORNEOL	0.007	%	ND		
HEXAHYDROTHYMOL	0.007	%	0.024		
FENCHYL ALCOHOL	0.007	%	ND		
3-CARENE	0.007	%	ND		
CIS-NEROLIDOL	0.007	%	ND		
ISOPULEGOL	0.007	%	ND		ı



### **Terpenes**

Analyzed by

Weight 0.9921a

**Extraction date** 02/13/20 10:02:07

**Extracted By** 

Analysis Method -SOP.T.40.090

**Analytical Batch -DA010172TER** 

Instrument Used: DA-GCMS-004

Reviewed On - 02/17/20 16:15:04

Batch Date: 02/12/20 09:29:06

Reagent	Dilution	Consums. I
052119.04	10	180711
		280650306

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** 

0.131

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Jorge Segredo Lab Director

State License # n/a ISO Accreditation # 97164



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GRW 150 MG CBD MUSCLE & JOINT CREAM

N/A

Matrix : Derivative

PASSED

## **Certificate of Analysis**

**Green Roads** 

601 Fairway Drive Deerfield Beach Florida, United States 33441 **Telephone:** (954) 609-5537 **Email:** ashley@greenroads.com Sample : DA00213005-001 Harvest/LOT ID: A28W01

Batch#:BMR0025 Sampled:02/12/20 Ordered:02/12/20 Sample Size Received: 30.3

Completed: 04/21/20 Expires: 04/21/21 Sample Method: SOP Client Method

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### **Pesticides**

### **PASSED**

Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.01	ppm	0.3	ND
ACEPHATE	0.01	ppm	3	ND
ACEQUINOCYL	0.01	ppm	2	ND
ACETAMIPRID	0.01	ppm	3	ND
ALDICARB	0.01	ppm	0.1	ND
AZOXYSTROBIN	0.01	ppm	3	ND
BIFENAZATE	0.01	ppm	3	ND
BIFENTHRIN	0.01	ppm	0.5	ND
BOSCALID	0.01	PPM	3	ND
CARBARYL	0.05	ppm	0.5	ND
CARBOFURAN	0.01	ppm	0.1	ND
CHLORANTRANILIPROLE	0.1	ppm	3	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	3	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND
CLOFENTEZINE	0.02	ppm	0.5	ND
COUMAPHOS	0.01	ppm	0.1	ND
DAMINOZIDE	0.01	ppm	0.1	ND
DIAZANON	0.01	ppm	0.2	ND
DICHLORVOS	0.01	ppm	0.1	ND
CYPERMETHRIN	0.05	ppm	1	ND
DIMETHOATE	0.01	ppm	0.1	ND
DIMETHOMORPH	0.02	ppm	3	ND
ETHOPROPHOS	0.01	ppm	0.1	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	0.01	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	0.04	ppm	3	ND
KRESOXIM-METHYL	0.01	ppm	1	ND
MALATHION	0.02	ppm	2	ND
METALAXYL	0.01	ppm	3	ND
METHIOCARB	0.01	ppm	0.1	ND
METHOMYL	0.01	ppm	0.1	ND
METHYL PARATHION	0.005	ppm	0.1	ND
MEVINPHOS	0.01	ppm	0.1	ND

Pesticides	LOD	Units	Action Level	Result
MYCLOBUTANIL	0.01	ppm	3	ND
NALED	0.025	ppm	0.5	ND
OXAMYL	0.05	ppm	0.5	ND
PACLOBUTRAZOL	0.01	ppm	0.1	ND
PHOSMET	0.01	ppm	0.2	ND
PIPERONYL BUTOXIDE	0.1	ppm	3	ND
PRALLETHRIN	0.01	ppm	0.4	ND
PROPICONAZOLE	0.01	ppm	1	ND
PROPOXUR	0.01	ppm	0.1	ND
PYRETHRINS	0.05	ppm	1	ND
PYRIDABEN	0.02	ppm	3	ND
SPINETORAM	0.02	PPM	3	ND
SPIROMESIFEN	0.01	ppm	3	ND
SPIROTETRAMAT	0.01	ppm	3	ND
SPIROXAMINE	0.01	ppm	0.1	ND
TEBUCONAZOLE	0.01	ppm	1	ND
THIACLOPRID	0.01	ppm	0.1	ND
THIAMETHOXAM	0.05	ppm	1	ND
TOTAL CONTAMINANT LOAD (PESTICIDES)	0	PPM	20	ND
TOTAL PERMETHRIN	0.01	ppm	1	ND
TOTAL SPINOSAD	0.01	ppm	3	ND
TRIFLOXYSTROBIN	0.01	ppm	3	ND

E <sup>É</sup>	Pesticides	PASSED
_		

 
 Analyzed by
 Weight 56, 56
 Extraction date 02/13/20 12:02:25
 Extracted By 1.0001g

 02/13/20 12:02:25
 1082 , 584

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 - DA010221PES , DA010231 Reviewed On- 02/14/20 08:34:43 Instrument Used : DA-LCMS-002

Batch Date: 02/13/20 11:21:04

 Reagent
 Dilution
 Consums. ID

 01173-017
 10
 846C7-8323

 02182-048
 10
 846C7-8323

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

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Jorge Segredo

Lab Director

State License # n/a ISO Accreditation # 97164



04/21/2020

Signature

Signed On



GRW 150 MG CBD MUSCLE & JOINT CREAM

AM FOR S

Matrix : Derivative

### PASSED

## **Certificate of Analysis**

**Green Roads** 

601 Fairway Drive Deerfield Beach Florida, United States 33441 **Telephone:** (954) 609-5537 **Email:** ashley@greenroads.com Sample : DA00213005-001 Harvest/LOT ID: A28W01

Batch#: BMR0025 Sampled: 02/12/20 Ordered: 02/12/20 Sample Size Received: 30.3

Completed: 04/21/20 Expires: 04/21/21 Sample Method: SOP Client Method

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### **Residual Solvents**

### **PASSED**



### **Residual Solvents**



Solvent		LOD	Units	Action Level (PPM)	Pass/Fail	Result
1,1-DICHLOROET	HENE	1	ppm	8	PASS	ND
1,2-DICHLOROET	HANE	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-BUT	ANE)	96	ppm	5000	PASS	ND
CHLOROFORM		0.18	ppm	2	PASS	ND
DICHLOROMETHA	ANE	3.75	ppm	125	PASS	ND
ETHANOL		90	ppm		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-PE	NTANE)	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
TRICHLOROETHY	LENE	2.25	ppm	25	PASS	ND

	-70		- 19
Analyzed by	Weight	Extraction date	<b>Extracted By</b>

850 0.0232g 02/13/20 04:02:35 850

Analysis Method -SOP.T.40.032

Analytical Batch -DA010234SOL Instrument Used : DA-GCMS-002 Batch Date : 02/13/20 16:09:34 Reviewed On - 02/17/20 12:14:14

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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Jorge Segredo

Lab Director

State License # n/a ISO Accreditation # 97164



04/21/2020

Signature

Signed On



GRW 150 MG CBD MUSCLE & JOINT CREAM

Matrix: Derivative



## **Certificate of Analysis**

**PASSED** 

601 Fairway Drive Deerfield Beach Florida, United States 33441 Telephone: (954) 609-5537 Email: ashley@greenroads.com

Sample : DA00213005-001 Harvest/LOT ID: A28W01

DACCED

Batch#: BMR0025 Sampled: 02/12/20 Ordered: 02/12/20

Sample Size Received: 30.3

Completed: 04/21/20 Expires: 04/21/21 Sample Method: SOP Client Method

Consums, ID

181207119C

918C4 923C4-923AK 929C6-929H 50AX26219

19323

23819111

190611634

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<b>*</b>
080

AFLATOXIN B1

OCHRATOXIN A+

					PASSED	
<i>[</i>	Analyte	LOD	Units	Result	Action Level (PPM)	
Δ	FLATOXIN G2	0.002	ppm	ND	0.02	
Α	FLATOXIN G1	0.002	ppm	ND	0.02	
Δ	FLATOXIN B2	0.002	ppm	ND	0.02	

ND

ND

0.02

0.02

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

Analytical Batch -DA010272MYC | Reviewed On - 02/14/20 14:12:31

0.002

0.002

**Mycotoxins** 

Instrument Used : DA-LCMS-002 Batch Date: 02/14/20 13:28:59

Analyzed by	Weight	Extraction date	Extracted By
56	1.0001g	02/14/20 02:02:36	56

ppm

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 <20µg/Kg.



Reagent

122719 33

122719.75

### **Heavy Metals**

detected in 1g of a sample, the sample fails the microbiological-impurity testing.

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

PASSED

	<del>                                     </del>
Reagent	Dilution
021320.R12	50
021220.R17	
021220.R15	
021020.R10	
012920.R03	
020520.R01	



#### **Microbials**

### **PASSED**

Analysis Method -SOP.T.40.043

Analytical Batch -DA010216MIC | Reviewed On - 04/21/20 12:18:33

Instrument Used: PathogenDX PCR\_Array Scanner DA-111, PathogenDX PCR\_DA-010

Batch Date: 02/13/20 09:27:52

Analyzed by	Weight	Extraction date	Extracted By
513	1.0110g	02/13/20 10:02:39	1082

Reagent Dilution Consums, ID 181019-274 021120.R12

Metal LOD Unit Result **Action Level (PPM)** Result ARSENIC PPM ND 1.5 0.02 not present in 1 gram. CADMIUM 0.02 PPM ND 0.5 not present in 1 gram. LEAD PPM 0.05 0.635 not present in 1 gram. MERCURY 0.02 PPM ND not present in 1 gram. not present in 1 gram. Weight Extraction date Extracted By Analyzed by not present in 1 gram. <100 **53** 0.2603g 02/14/20 03:02:03

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

Analytical Batch -DA010237HEA | Reviewed On - 04/21/20 12:17:33

Instrument Used: DA-ICPMS-001 Batch Date: 02/14/20 08:32:51

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

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