



Certificate of Analysis

Order # 2310HBR0010	Receipt Date: 10/11/2023 13:10	Product Name: Green Roads Muscle & Joint Relief Cream 750 mg	
Order Date: 10/9/2023	Completion Date: 10/14/2023 08:57	Seed to Sale #:	
Sample # 2310HBR0010-001	Initial Gross Weight: 28.97 g	Batch #: J19Z01	
Sampling Date: 10/11/2023 00:10	Total Batch Wgt or Vol:	Lot ID: K06Z01	
Client: Global Widget	Batch Date: 10/11/2023	Sampling Method: LAB-025	Cultivation Facility:
Address: 8419 Sunstate Street	Extracted From: Hemp	Matrix: Topical	Cultivation Date:
Address: Tampa, FL 33634	Cultivars: Isolate	Test Reg State: Hemp CA	Production Facility:
	Description: Topical		Production Date:

SUMMARY



TESTED Potency	TESTED Terpenes	PASSED Pesticides	PASSED Heavy Metals	NOT TESTED Total Contaminant Load	PASSED Residual Solvents	NOT TESTED Total Aerobic Bacteria
PASSED Mycotoxins	PASSED Microbials	PASSED Total Yeast and Mold	PASSED Filtch and Foreign Material	NOT TESTED Water Activity	NOT TESTED Moisture	NOT TESTED Homogeneity

POTENCY TESTED

Analyte	LOD (mg/g)	Result (mg/g)	Result %	mg/unit
CBD	0.018	24.8	2.48	744.25
CBDV	0.015	0.106	0.011	3.181
CBC	0.045	ND	ND	N/A
CBDA	0.018	ND	ND	N/A
CBG	0.032	ND	ND	N/A
CBGA	0.025	ND	ND	N/A
CBN	0.014	ND	ND	N/A
d8-THC	0.013	ND	ND	N/A
d9-THC	0.03	ND	ND	N/A
THCA	0.022	ND	ND	N/A
THCV	0.021	ND	ND	N/A

POTENCY SUMMARY

Total THC 0.000%	Total THC/Unit N/A	THC Label Claim N/A	Total Cannabinoids 2.49%
Total CBD 25.0%	Total CBD/Unit 744.25 mg	CBD Label Claim N/A	Total Cannabinoids/Unit 747.43 mg

TERPENES SUMMARY

Analyte	Result (ug/g)	Result %
Linalool	2617	0.262
Menthol	1119	0.112
[+/-]-Camphor	495.8	0.050
Camphene	310.9	0.031
alpha-Pinene	280.0	0.028
Eucalyptol	217.0	0.022
E-Caryophyllene	193.3	0.019
(+/-)-Borneol	94.60	0.009
gamma-Terpinene	66.04	0.007
alpha-Bisabolol	< LOQ	< LOQ

Total Terpenes: 0.54%

Showing top 10 Terpenes, full analysis on the following page.

Sample Prepared By: 032	Date/Time: 10/12/2023 16:09	Sample Analyzed By: 040	Date/Time: 10/13/2023 9:54
Batch Reviewed By: 040	Date/Time: 10/13/2023 14:28	Analysis #: POTENCY HPLC2.batch.bin	
Specimen wt (g): 1.0075	Dilution: 100		
Analysis Method: TM-001 Potency	Instrument Used: HPLC		

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A. Repay
Anthony Repay
Lab Director-Micro

10/14/2023 08:57



Certificate of Analysis

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Client: Global Widget	Batch Date: 10/11/2023	Sampling Method: LAB-025	Cultivation Facility:
Address: 8419 Sunstate Street	Extracted From: Hemp	Matrix: Topical	Cultivation Date:
Address: Tampa, FL 33634	Cultivars: Isolate	Test Reg State: Hemp CA	Production Facility:
	Description: Topical		Production Date:

TERPENES

TESTED

Analyte	LOD (ug/g)	Result (ug/g)	Result %	Analyte	LOD (ug/g)	Result (ug/g)	Result %
alpha-Pinene	8	280.0	0.028	Camphene	10	310.9	0.031
Isopulegol	59	ND	ND	delta-3-Carene	0.158	ND	ND
alpha-Terpinene	0.935	ND	ND	Eucalyptol	56	217.0	0.022
gamma-Terpinene	0.062	66.04	0.007	alpha-terpinolene	17	ND	ND
Linalool	18	2617	0.262	Geraniol	13	ND	ND
alpha-Humulene	21	< LOQ	< LOQ	Z-Nerolidol	22	ND	ND
Menthol	44	1119	0.112	E-Nerolidol	19	ND	ND
Guaiol	24	ND	ND	E-Caryophyllene	31	193.3	0.019
Nerol	25	ND	ND	alpha-Bisabolol	20	< LOQ	< LOQ
Valencene	27	ND	ND	D-Limonene	15	< LOQ	< LOQ
alpha-Cedrene	20	ND	ND	Sabinene	29	ND	ND
Endo-Fenchyl Alcohol	40	ND	ND	Terpineol	31	< LOQ	< LOQ
Pulegone	11	ND	ND	[+/-]-Camphor	62	495.8	0.050
Isoborneol	74	ND	ND	(+/-)-Fenchone	21	ND	ND
Ocimenes	31	ND	ND	Cedrol	7	ND	ND
Farnesene	130	ND	ND	Geranyl acetate	19	ND	ND
alpha-Phellandrene	0.189	ND	ND	beta-Pinene	26	ND	ND
beta-Myrcene	50	ND	ND	Caryophyllene Oxide	191	ND	ND
(+/-)-Borneol	15	94.60	0.009	Sabinene Hydrate	0.209	ND	ND

Total Terpenes: 0.54 %

Sample Prepared By: 048	Date/Time: 10/12/2023 12:26	Sample Analyzed By: 039	Date/Time: 10/12/2023 13:09
Batch Reviewed By: 027	Date/Time: 10/12/2023 14:19	Analysis #: 10112023 Terps 1.batch.bin	
Specimen wt: 0.5329	Dilution: 50		
Analysis Method: TM-004 Terpenes	Instrument Used: LI-GCMS		

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Sampling Date: 10/11/2023 00:10 Total Batch Wgt or Vol: Lot ID: K06Z01

Client: Global Widget Batch Date: 10/11/2023 Sampling Method: LAB-025 Cultivation Facility:
Address: 8419 Sunstate Street Extracted From: Hemp Matrix: Topical Cultivation Date:
Address: Tampa, FL 33634 Cultivars: Isolate Test Reg State: Hemp CA Production Facility:
 Description: Topical Production Date:

PESTICIDES **PASSED**

Analyte	LOD (ug/kg)	Action Level (ug/kg)	Result (ug/kg)	Status	Analyte	LOD (ug/kg)	Action Level (ug/kg)	Result (ug/kg)	Status
Abamectin	14.3	300	ND	Pass	Acephate	8.4	5000	ND	Pass
Acequinocyl	14.4	4000	ND	Pass	Acetamiprid	9.3	5000	ND	Pass
Aldicarb	11.4	100	ND	Pass	Azoxystrobin	14	40000	ND	Pass
Bifenazate	14.3	5000	ND	Pass	Bifenthrin	11.1	500	ND	Pass
Boscalid	13.1	10000	ND	Pass	Captan	13.3	5000	ND	Pass
Carbaryl	14.2	500	ND	Pass	Carbofuran	8.4	100	ND	Pass
Chlorantraniliprole	26.4	40000	ND	Pass	Chlordane	10	100	ND	Pass
Chlorfenapyr	6.8	100	ND	Pass	Chloromequat chloride				
Chlorpyrifos	15.6	100	ND	Pass	Clofentazine	13.6	500	ND	Pass
Coumaphos	3.9	100	ND	Pass	Cyfluthrin	7.6	1000	ND	Pass
Cypermethrin	14	1000	ND	Pass	Daminozide	13.5	100	ND	Pass
Diazinon	11.2	200	ND	Pass	Dichlorvos	14.4	100	ND	Pass
Dimethoate	15.1	100	ND	Pass	Dimethomorph	16.7	20000	ND	Pass
Ethoprophos	13.7	100	ND	Pass	Etofenprox	9.4	100	ND	Pass
Etoxazole	11.2	1500	ND	Pass	Fenhexamid	13.7	10000	ND	Pass
Fenoxycarb	14.4	100	ND	Pass	Fenpyroximate	12.9	2000	ND	Pass
Fipronil	12.3	100	ND	Pass	Fonicamid	12.8	2000	ND	Pass
Fludioxonil	12.5	30000	ND	Pass	Hexythiazox	12.7	2000	ND	Pass
Imazalil	14.4	100	ND	Pass	Imidacloprid	28.6	3000	ND	Pass
Kresoxim-methyl	10	1000	ND	Pass	Malathion	19.2	5000	ND	Pass
Metalaxyl	12.2	15000	ND	Pass	Methiocarb	14.6	100	ND	Pass
Methomyl	9.6	100	ND	Pass	Methyl parathion	9.1	100	ND	Pass
Mevinphos	11.4	100	ND	Pass	Myclobutanil	11.4	9000	ND	Pass
Naled	15.1	500	ND	Pass	Oxamyl	7.6	200	ND	Pass
Paclobutrazol	12.4	100	ND	Pass	Pentachloronitrobenzene	8.4	200	ND	Pass
Permethrin	9.7	20000	ND	Pass	Phosmet	12.6	200	ND	Pass
Piperonylbutoxide	8	8000	ND	Pass	Prallethrin	13.2	400	ND	Pass
Propiconazole	14.6	20000	ND	Pass	Propoxur	8.7	100	ND	Pass
Pyrethrins	25.0	1000	ND	Pass	Pyridaben	12.4	3000	ND	Pass
Spinetoram	12.2	3000	ND	Pass	Spinosad A and D	11.8	3000	ND	Pass
Spiromesifen	14.9	12000	ND	Pass	Spirotetramat	13.5	13000	ND	Pass
Spiroxamine	14.7	100	ND	Pass	Tebuconazole	13	2000	ND	Pass
Thiacloprid	8.2	100	ND	Pass	Thiamethoxam	13.4	4500	ND	Pass
Trifloxystrobin	7	30000	ND	Pass					

Sample Prepared By: 025 Date/Time: 10/13/2023 9:36 Specimen wt (g): 1.0117 Dilution: 125 Analysis # 2023_10_12 GC1 PEST1.batch.bin
 Sample Analyzed By: 025 Date/Time: 10/13/2023 9:58 Analysis Method: TM-003 Pesticides
 Batch Reviewed By: 029 Date/Time: 10/13/2023 14:19 Instrument Used: GC/MS/MS

Sample Prepared By: 025 Date/Time: 10/13/2023 9:36 Specimen wt (g): 1.0117 Dilution: 125 Analysis # 2023_10_12 LC2 PEST1.batch.bin
 Sample Analyzed By: 025 Date/Time: 10/13/2023 9:58 Analysis Method: TM-002 Pesticides and Mycotoxins
 Batch Reviewed By: 029 Date/Time: 10/13/2023 14:19 Instrument Used: LC/MS/MS

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Anthony Repay Lab Director-Micro

10/14/2023 08:57



Certificate of Analysis

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Order Date: 10/9/2023	Completion Date: 10/14/2023 08:57	Seed to Sale #:
Sample # 2310HBR0010-001	Initial Gross Weight: 28.97 g	Batch #: J19Z01
Sampling Date: 10/11/2023 00:10	Total Batch Wgt or Vol:	Lot ID: K06Z01

Client: Global Widget	Batch Date: 10/11/2023	Sampling Method: LAB-025	Cultivation Facility:
Address: 8419 Sunstate Street	Extracted From: Hemp	Matrix: Topical	Cultivation Date:
Address: Tampa, FL 33634	Cultivars: Isolate	Test Reg State: Hemp CA	Production Facility:
	Description: Topical		Production Date:

HEAVY METALS		PASSED		
Analyte	LOD (ug/kg)	Action Level (ug/kg)	Result (ug/kg)	Status
Lead	20.7	500	487.5	Pass
Arsenic	26.2	1500	< LOQ	Pass
Cadmium	18.9	500	ND	Pass
Mercury	28.4	3000	ND	Pass

Sample Prepared By: 028	Date/Time: 10/12/2023 8:47	Sample Analyzed By: 028	Date/Time: 10/12/2023 15:25
Batch Reviewed By: 028	Date/Time: 10/12/2023 15:32	Analysis #	ICPMS_1_1012.b
Specimen wt (g): 0.1200		Dilution:	50
Analysis Method: TM-006 Heavy Metals		Instrument Used:	ICP-MS

RESIDUAL SOLVENTS		PASSED		
Analyte	LOD (mg/kg)	Action Level (mg/kg)	Result (mg/kg)	Status
Acetone	15.2	5000	ND	Pass
Acetonitrile	10.3	410	ND	Pass
Benzene	0.117	1	ND	Pass
Butane	22.5	5000	ND	Pass
Chloroform	0.109	1	ND	Pass
1,2-Dichloroethane	0.186		ND	N/A
1,1-Dichloroethene				N/A
Ethanol				N/A
Ethyl acetate	15.3	5000	ND	Pass
Ethyl ether	18.9	5000	ND	Pass
Ethylene oxide	0.225	1	ND	Pass
Heptane	29.4	5000	ND	Pass
Hexane	27.1	290	ND	Pass
Isopropyl alcohol	15.4		ND	N/A
Methanol	22.9	3000	ND	Pass
Methylene chloride	0.088	1	ND	Pass
Pentane	27.6	5000	ND	Pass
Propane	17.6	5000	ND	Pass
Trichloroethylene	0.098	1	ND	Pass
Toluene	22.6	890	ND	Pass
Total xylenes	20.0	2170	ND	Pass

Sample Prepared By: 048	Date/Time: 10/12/2023 9:34	Sample Analyzed By: 048	Date/Time: 10/12/2023 9:43
Batch Reviewed By: 027	Date/Time: 10/12/2023 11:14	Analysis #	10112023 RSA 1.batch.bin
Specimen wt (g): 0.2659		Dilution:	5
Analysis Method: TM-005 Residual Solvents		Instrument Used:	HS-GCMS

TOTAL CONTAMINANT LOAD			
Analyte	Action Level (mg/kg)	Result (mg/kg)	Status
Heavy Metals/Pesticides			N/A

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Anthony Repay
Lab Director-Micro

10/14/2023 08:57



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Address: Tampa, FL 33634	Cultivars: Isolate	Test Reg State: Hemp CA	Production Facility:
	Description: Topical		Production Date:

MYCOTOXINS PASSED

Analyte	LOD (ug/kg)	Action Level (ug/kg)	Result (ug/kg)	Status
Aflatoxin B1				N/A
Aflatoxin B2				N/A
Aflatoxin G1				N/A
Aflatoxin G2				N/A
Ochratoxin A	2.9	20	ND	Pass
Total Aflatoxin		20	0.000	Pass

Sample Prepared By:	Date/Time:	Sample Analyzed By:	Date/Time:
025	10/13/2023 9:36	034	10/13/2023 10:48
Batch Reviewed By:	Date/Time:	Analysis #	
029	10/13/2023 14:19	2023_10_12 LC2 PEST1 .batch.bin	
Specimen wt (g):		Dilution:	
1.0117		125	
Analysis Method:		Instrument Used:	
TM-002 Pesticides and Mycotoxins		LC/MS/MS	

TOTAL YEAST AND MOLD PASSED

Analyte	Action Level (cfu/g)	Result (cfu/g)	Status
Total Combined Yeasts & Molds	100000	ND	Pass

Sample Prepared By:	Date/Time:	Sample Analyzed By:	Date/Time:
043	10/14/2023 8:16	043	10/14/2023 8:18
Batch Reviewed By:	Date/Time:	Analysis #	
029	10/14/2023 8:33	1	
Specimen wt (g):		Dilution:	
1.00		10	
Analysis Method:		Instrument Used:	
TM-012 Yeast and Molds		Incubator	

MICROBIAL PASSED

Analyte	Action Level (present in 1 g)	Result (present in 1 g)	Status
Salmonella	Present	Absent	Pass
Shiga Toxin E. coli	Present	Absent	Pass
Total Aspergillus*			N/A

Sample Prepared By:	Date/Time:	Sample Analyzed By:	Date/Time:
043	10/13/2023 14:41	043	10/13/2023 14:45
Batch Reviewed By:	Date/Time:	Analysis #	
029	10/13/2023 16:17	2	
Specimen wt (g):		Dilution:	
1.040		1	
Analysis Method:		Instrument Used:	
TM-011 Microbiology		qPCR	

* Total Aspergillus represents the sum of the results of Aspergillus flavus, Aspergillus fumigatus, Aspergillus niger, and Aspergillus terreus.

FILTH & FOREIGN MATERIAL PASSED

Analyte	Action Level	Result	Status
Foreign Material (per 3g)	1	0.000	Pass
Filth (%)	25	0.000	Pass

Sample Analyzed By:	Date/Time:	Analysis #
031	10/12/2023 15:10	
Batch Reviewed By:	Date/Time:	Analysis #
027	10/12/2023 16:10	FF
Specimen wt (g):		
15.0		
Analysis Method:		Instrument Used:
TM-010 Filth and Foreign Material		Electronic Balance

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Anthony Repay
Lab Director-Micro

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Address: Tampa, FL 33634	Cultivars: Isolate	Test Reg State: Hemp CA	Production Facility:
	Description: Topical		Production Date:

WATER ACTIVITY		NOT TESTED	
Analyte	Action Level (aw)	Result (aw)	Status
Water Activity			N/A
Sample Analyzed By:	Date/Time:		
Batch Reviewed By:	Date/Time:	Analysis #	
Specimen wt (g):			
Analysis Method:		Instrument Used:	

MOISTURE		NOT TESTED	
Analyte	Action Level (%)	Result (%)	Status
Moisture Content			N/A
Sample Analyzed By:	Date/Time:		
Batch Reviewed By:	Date/Time:	Analysis #	
Specimen wt (g):			
Analysis Method:		Instrument Used:	

TOTAL AEROBIC BACTERIA		NOT TESTED	
Analyte	Action Level (cfu/g)	Result (cfu/g)	Status
Total Aerobic Bacteria			N/A
Sample Prepared By:	Date/Time:	Sample Analyzed By:	Date/Time:
Batch Reviewed By:	Date/Time:	Analysis #	
Specimen wt (g):		Dilution:	
Analysis Method:		Instrument Used:	

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Anthony Repay **Lab**
 Director-Micro

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