



# Certificate of Analysis

**Order #** 2310HBR0009      Receipt Date: 10/11/2023 12:10      Product Name: Green Roads Arthritis Pain Relief 1500 mg Roll On  
**Order Date:** 10/9/2023      Completion Date: 10/14/2023 08:58      Seed to Sale #:  
**Sample #** 2310HBR0009-001      Initial Gross Weight: 89.26 g      Batch #: H11Z01  
**Sampling Date:** 10/11/2023 00:10      Total Batch Wgt or Vol:      Lot ID: H11Z01

**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



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

## POTENCY TESTED

Analyte	LOD (mg/g)	Result (mg/g)	Result %	mg/unit
CBD	0.018	16.1	1.61	1467.4
CBG	0.032	1.21	0.121	109.58
CBDV	0.015	0.080	0.008	7.291
CBC	0.045	0.102	0.010	N/A
CBDA	0.018	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

**Sample Prepared By:** Date/Time:      **Sample Analyzed By:** Date/Time:  
 032      10/12/2023 16:03      040      10/13/2023 9:53  
**Batch Reviewed By:** Date/Time:      **Analysis #**  
 040      10/13/2023 14:28      POTENCY HPLC2.batch.bin  
**Specimen wt (g):**      **Dilution:**  
 1.0356      100  
**Analysis Method:**      **Instrument Used:**  
 TM-001 Potency      HPLC

## POTENCY SUMMARY

Total THC 0.000%	Total THC/Unit N/A	THC Label Claim N/A	Total Cannabinoids 1.74%
Total CBD 16.7%	Total CBD/Unit 1467.4 mg	CBD Label Claim N/A	Total Cannabinoids/Unit 1584.2 mg

## TERPENES SUMMARY

Analyte	Result (ug/g)	Result %
Menthol	53230	5.320
[+/-]-Camphor	37150	3.710
alpha-Bisabolol	1341	0.134
Camphene	311.5	0.031
(+/-)-Fenchone	< LOQ	< LOQ
Isopulegol	< LOQ	< LOQ
(+/-)-Borneol	ND	ND
alpha-Cedrene	ND	ND
alpha-Humulene	ND	ND
alpha-Phellandrene	ND	ND

**Total Terpenes: 9.2%**  
 Showing top 10 Terpenes, full analysis on the following page.

Definitions and Abbreviations used in this report: Total THC = Delta 9 THC + (THCA\*0.877), Total CBD = CBD + (CBDA\*0.877), Total Cannabinoids = THC + THCA + CBD + CBDA + CBG + CBGA + Delta 8 THC + THCV + CBDV + CBC + CBN, Total THC and Total CBD are expressed as mg in total package weight, (Dilution) = Dilution Factor, (%) = Percent, (mg/g) = Milligrams per Gram, (mg/mL) = Milligrams per Milliliter, (mg/kg) = Milligrams per Kilogram, (ug/kg) = Microgram per Kilogram, (cfu/g) = Colony Forming Unit per Gram, Action Limit of Absent is equivalent to < 1 cfu/g, (aw) = Water Activity, (LOD) = Limit of Detection, (LOQ) = Limit of Quantitation; (ppm) = parts per million; (ppb) = parts per billion; Units for ppm also expressed as (mg/kg); Units for ppb also expressed as (ug/kg).  
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*A. Repay*  
**Anthony Repay**      **Lab Director-Micro**

10/14/2023 08:58



# Certificate of Analysis

<b>Order #</b> 2310HBR0009	Receipt Date: 10/11/2023 12:10	Product Name: Green Roads Arthritis Pain Relief 1500 mg Roll On
Order Date: 10/9/2023	Completion Date: 10/14/2023 08:58	Seed to Sale #:
Sample # 2310HBR0009-001	Initial Gross Weight: 89.26 g	Batch #: H11Z01
Sampling Date: 10/11/2023 00:10	Total Batch Wgt or Vol:	Lot ID: H11Z01

<b>Client:</b> 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	ND	ND	Camphene	10	311.5	0.031
Isopulegol	59	< LOQ	< LOQ	delta-3-Carene	0.158	ND	ND
alpha-Terpinene	0.935	ND	ND	Eucalyptol	56	ND	ND
gamma-Terpinene	0.062	ND	ND	alpha-terpinolene	17	ND	ND
Linalool	18	ND	ND	Geraniol	13	ND	ND
alpha-Humulene	21	ND	ND	Z-Nerolidol	22	ND	ND
Menthol	44	53230	5.320	E-Nerolidol	19	ND	ND
Guaiol	24	ND	ND	E-Caryophyllene	31	ND	ND
Nerol	25	ND	ND	alpha-Bisabolol	20	1341	0.134
Valencene	27	ND	ND	D-Limonene	15	ND	ND
alpha-Cedrene	20	ND	ND	Sabinene	29	ND	ND
Endo-Fenchyl Alcohol	40	ND	ND	Terpineol	31	ND	ND
Pulegone	11	ND	ND	[+/-]-Camphor	62	37150	3.710
Isoborneol	74	ND	ND	(+/-)-Fenchone	21	< LOQ	< LOQ
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	ND	ND	Sabinene Hydrate	0.209	ND	ND

**Total Terpenes: 9.2 %**

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: 0.5344		Dilution: 50	
Analysis Method: TM-004 Terpenes		Instrument Used: LI-GCMS	

Definitions and Abbreviations used in this report: Total THC = Delta 9 THC + (THCA\*0.877), Total CBD = CBD + (CBDA\*0.877), Total Cannabinoids = THC + THCA + CBD + CBDA + CBG + CBGA + Delta 8 THC + THCV + CBDV + CBC + CBN, Total THC and Total CBD are expressed as mg in total package weight, (Dilution) = Dilution Factor, (%) = Percent, (mg/g) = Milligrams per Gram, (mg/mL) = Milligrams per Milliliter, (mg/kg) = Milligrams per Kilogram, (ug/kg) = Microgram per Kilogram, (cfu/g) = Colony Forming Unit per Gram, Action Limit of Absent is equivalent to < 1 cfu/g, (aw) = Water Activity, (LOD) = Limit of Detection, (LOQ) = Limit of Quantitation; (ppm) = parts per million; (ppb) = parts per billion; Units for ppm also expressed as (mg/kg); Units for ppb also expressed as (ug/kg).

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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:

**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): 1.0208    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): 1.0208    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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*A. Repay*  
**Anthony Repay**      Lab Director-Micro

10/14/2023 08:58



# Certificate of Analysis

**Order #** 2310HBR0009      Receipt Date: 10/11/2023 12:10      Product Name: Green Roads Arthritis Pain Relief 1500 mg Roll On  
**Order Date:** 10/9/2023      Completion Date: 10/14/2023 08:58      Seed to Sale #:  
**Sample #** 2310HBR0009-001      Initial Gross Weight: 89.26 g      Batch #: H11Z01  
**Sampling Date:** 10/11/2023 00:10      Total Batch Wgt or Vol:      Lot ID: H11Z01

**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	136.7	Pass
Arsenic	26.2	1500	ND	Pass
Cadmium	18.9	500	ND	Pass
Mercury	28.4	3000	ND	Pass

Sample Prepared By:      Date/Time:      Sample Analyzed By:      Date/Time:  
 028      10/12/2023 8:47      028      10/12/2023 15:25  
 Batch Reviewed By:      Date/Time:      Analysis #  
 028      10/12/2023 15:32      ICPMS\_1\_1012.b  
 Specimen wt (g):      Dilution:  
 0.1262      50  
 Analysis Method:      Instrument Used:  
 TM-006 Heavy Metals      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:      Date/Time:      Sample Analyzed By:      Date/Time:  
 048      10/12/2023 9:34      048      10/12/2023 9:43  
 Batch Reviewed By:      Date/Time:      Analysis #  
 027      10/12/2023 11:14      10112023 RSA 1.batch.bin  
 Specimen wt (g):      Dilution:  
 0.2859      5  
 Analysis Method:      Instrument Used:  
 TM-005 Residual Solvents      HS-GCMS

## TOTAL CONTAMINANT LOAD

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

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*A. Repay*  
**Anthony Repay**      Lab Director-Micro

10/14/2023 08:58



Certificate of Analysis

Order # 2310HBR0009
Order Date: 10/9/2023
Sample # 2310HBR0009-001
Sampling Date: 10/11/2023 00:10

Receipt Date: 10/11/2023 12:10
Completion Date: 10/14/2023 08:58
Initial Gross Weight: 89.26 g
Total Batch Wgt or Vol:

Product Name: Green Roads Arthritis Pain Relief 1500 mg Roll On
Seed to Sale #:
Batch #: H11Z01
Lot ID: H11Z01

Client: Global Widget
Address: 8419 Sunstate Street
Address: Tampa, FL 33634

Batch Date: 10/11/2023
Extracted From: Hemp
Cultivars: Isolate
Description: Topical

Sampling Method: LAB-025
Matrix: Topical
Test Reg State: Hemp CA

Cultivation Facility:
Cultivation Date:
Production Facility:
Production Date:

MYCOTOXINS PASSED

Table with 5 columns: Analyte, LOD (ug/kg), Action Level (ug/kg), Result (ug/kg), Status. Rows include Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2, Ochratoxin A, Total Aflatoxin.

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 2023\_10\_12 LC2 PEST1 .batch.bin
Specimen wt (g): 14:19 Dilution: 125
1.0208
Analysis Method: Instrument Used:
TM-002 Pesticides and Mycotoxins LC/MS/MS

TOTAL YEAST AND MOLD PASSED

Table with 5 columns: Analyte, Action Level (cfu/g), Result (cfu/g), Status. Row: 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:
1.02 10
Analysis Method: Instrument Used:
TM-012 Yeast and Molds Incubator

MICROBIAL PASSED

Table with 5 columns: Analyte, Action Level (present in 1 g), Result (present in 1 g), Status. Rows include Salmonella, Shiga Toxin E. coli, Total Aspergillus\*.

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:
1.050 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

Table with 5 columns: Analyte, Action Level, Result, Status. Rows include Foreign Material (per 3g), Filth (%).

Sample Analyzed By: Date/Time:
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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Signature: A. Repay
Anthony Repay Lab Director-Micro

10/14/2023 08:58



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<b>Client:</b> 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:

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:	

Definitions and Abbreviations used in this report: Total THC = Delta 9 THC + (THCA\*0.877), Total CBD = CBD + (CBDA\*0.877), Total Cannabinoids = THC + THCA + CBD + CBDA + CBG + CBGA + Delta 8 THC + THCV + CBDV + CBC + CBN, Total THC and Total CBD are expressed as mg in total package weight, (Dilution) = Dilution Factor, (%) = Percent, (mg/g) = Milligrams per Gram, (mg/mL) = Milligrams per Milliliter, (mg/kg) = Milligrams per Kilogram, (ug/kg) = Microgram per Kilogram, (cfu/g) = Colony Forming Unit per Gram, Action Limit of Absent is equivalent to < 1 cfu/g, (aw) = Water Activity, (LOD) = Limit of Detection, (LOQ) = Limit of Quantitation; (ppm) = parts per million; (ppb) = parts per billion; Units for ppm also expressed as (mg/kg); Units for ppb also expressed as (ug/kg).  
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