



# Certificate of Analysis

<b>Order #</b> 2309HBR0012	Receipt Date: 9/18/2023 12:09	Product Name: Green Roads Heat Relief CBD Roll On 750 mg
Order Date: 9/15/2023	Completion Date: 09/21/2023 13:21	Seed to Sale #:
<b>Sample #</b> 2309HBR0012-002	Initial Gross Weight: 87.31 g	Batch #: J11Z01
Sampling Date: 9/18/2023 00:09	Total Batch Wgt or Vol:	Lot ID: J11Z01

<b>Client:</b> Global Widget	Batch Date: 9/18/2023	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	8.62	0.862	783.64
CBG	0.032	0.751	0.075	68.236
THCV	0.021	0.198	0.020	18.000
CBC	0.045	0.055	0.005	N/A
CBDA	0.018	ND	ND	N/A
CBDV	0.015	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

## POTENCY SUMMARY

Total THC 0.000%	Total THC/Unit N/A	THC Label Claim N/A	Total Cannabinoids 0.957%
Total CBD 0.862%	Total CBD/Unit 783.64 mg	CBD Label Claim N/A	Total Cannabinoids/Unit 869.88 mg

## TERPENES SUMMARY

Analyte	Result (ug/g)	Result %
Menthol	6526	0.653
alpha-Pinene	2091	0.209
Eucalyptol	743.9	0.074
alpha-Bisabolol	691.5	0.069
Camphene	420.0	0.042
D-Limonene	213.2	0.021
(+/-)-Borneol	148.6	0.015
beta-Pinene	147.5	0.015
E-Caryophyllene	104.3	0.010
gamma-Terpinene	21.16	0.002

Total Terpenes: 1.11%

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

Sample Prepared By: 032	Date/Time: 9/19/2023 12:41	Sample Analyzed By: 032	Date/Time: 9/20/2023 10:16
Batch Reviewed By: 027	Date/Time: 9/20/2023 13:37	Analysis #	Potency HPLC2.batch.bin
Specimen wt (g): 1.0351	Dilution:		100
Analysis Method: TM-001 Potency	Instrument Used:		HPLC

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

09/21/2023 13:21

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# Certificate of Analysis

<b>Order #</b> 2309HBR0012	Receipt Date: 9/18/2023 12:09	Product Name: Green Roads Heat Relief CBD Roll On 750 mg
Order Date: 9/15/2023	Completion Date: 09/21/2023 13:21	Seed to Sale #:
<b>Sample #</b> 2309HBR0012-002	Initial Gross Weight: 87.31 g	Batch #: J11Z01
Sampling Date: 9/18/2023 00:09	Total Batch Wgt or Vol:	Lot ID: J11Z01

<b>Client:</b> Global Widget	Batch Date: 9/18/2023	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	2091	0.209	Camphene	10	420.0	0.042
Isopulegol	59	ND	ND	delta-3-Carene	0.158	ND	ND
alpha-Terpinene	0.935	ND	ND	Eucalyptol	56	743.9	0.074
gamma-Terpinene	0.062	21.16	0.002	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	6526	0.653	E-Nerolidol	19	ND	ND
Guaiol	24	ND	ND	E-Caryophyllene	31	104.3	0.010
Nerol	25	ND	ND	alpha-Bisabolol	20	691.5	0.069
Valencene	27	ND	ND	D-Limonene	15	213.2	0.021
alpha-Cedrene	20	ND	ND	Sabinene	29	< LOQ	< LOQ
Endo-Fenchyl Alcohol	40	ND	ND	Terpineol	31	ND	ND
Pulegone	11	ND	ND	[+/-]-Camphor	62	ND	ND
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	147.5	0.015
beta-Myrcene	50	ND	ND	Caryophyllene Oxide	191	ND	ND
(+/-)-Borneol	15	148.6	0.015	Sabinene Hydrate	0.209	ND	ND

**Total Terpenes: 1.11 %**

<b>Sample Prepared By:</b> 039	<b>Date/Time:</b> 9/19/2023 10:47	<b>Sample Analyzed By:</b> 048	<b>Date/Time:</b> 9/19/2023 12:30
<b>Batch Reviewed By:</b> 027	<b>Date/Time:</b> 9/19/2023 14:46	<b>Analysis #:</b> 09182023 Terps 2.batch.bin	
<b>Specimen wt:</b> 0.5324		<b>Dilution:</b> 50	
<b>Analysis Method:</b> TM-004 Terpenes		<b>Instrument Used:</b> LI-GCMS	

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

09/21/2023 13:21



# Certificate of Analysis

**Order #** 2309HBR0012      Receipt Date: 9/18/2023 12:09      Product Name: Green Roads Heat Relief CBD Roll On 750 mg  
**Order Date:** 9/15/2023      Completion Date: 09/21/2023 13:21      Seed to Sale #:  
**Sample #** 2309HBR0012-002      Initial Gross Weight: 87.31 g      Batch #: J11Z01  
**Sampling Date:** 9/18/2023 00:09      Total Batch Wgt or Vol:      Lot ID: J11Z01

**Client:** Global Widget      Batch Date: 9/18/2023      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	Chlormequat 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: 034    Date/Time: 9/20/2023 10:44    Specimen wt (g): 1.0461    Dilution: 125    Analysis # 2023\_09\_19 GC2 PEST1.batch.bin  
 Sample Analyzed By: 034    Date/Time: 9/20/2023 10:52    Analysis Method: TM-003 Pesticides  
 Batch Reviewed By: 027    Date/Time: 9/20/2023 12:39    Instrument Used: GC/MS/MS

Sample Prepared By: 034    Date/Time: 9/20/2023 10:44    Specimen wt (g): 1.0461    Dilution: 125    Analysis # 2023\_09\_19 LC1 CAL PEST1.batch.bin  
 Sample Analyzed By: 034    Date/Time: 9/20/2023 10:52    Analysis Method: TM-002 Pesticides and Mycotoxins  
 Batch Reviewed By: 027    Date/Time: 9/20/2023 12:39    Instrument Used: LC/MS/MS

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

09/21/2023 13:21



# Certificate of Analysis

<b>Order #</b> 2309HBR0012	Receipt Date: 9/18/2023 12:09	Product Name: Green Roads Heat Relief CBD Roll On 750 mg
Order Date: 9/15/2023	Completion Date: 09/21/2023 13:21	Seed to Sale #:
<b>Sample #</b> 2309HBR0012-002	Initial Gross Weight: 87.31 g	Batch #: J11Z01
Sampling Date: 9/18/2023 00:09	Total Batch Wgt or Vol:	Lot ID: J11Z01

<b>Client:</b> Global Widget	Batch Date: 9/18/2023	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	181.8	Pass
Arsenic	26.2	1500	ND	Pass
Cadmium	18.9	500	ND	Pass
Mercury	28.4	3000	ND	Pass

  

Sample Prepared By: 028	Date/Time: 9/19/2023 11:09	Sample Analyzed By: 037	Date/Time: 9/20/2023 10:15
Batch Reviewed By: 028	Date/Time: 9/20/2023 10:48	Analysis #	ICPMS_1.b
Specimen wt (g): 0.1232		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: 9/19/2023 10:40	Sample Analyzed By: 048	Date/Time: 9/19/2023 10:46
Batch Reviewed By: 027	Date/Time: 9/19/2023 14:32	Analysis #	09182023 RSA 1.batch.bin
Specimen wt (g): 0.2837		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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*A. Repay*  
**Anthony Repay**  
Lab Director-Micro

09/21/2023 13:21



# Certificate of Analysis

**Order #** 2309HBR0012      Receipt Date: 9/18/2023 12:09      Product Name: Green Roads Heat Relief CBD Roll On 750 mg  
**Order Date:** 9/15/2023      Completion Date: 09/21/2023 13:21      Seed to Sale #:  
**Sample #** 2309HBR0012-002      Initial Gross Weight: 87.31 g      Batch #: J11Z01  
**Sampling Date:** 9/18/2023 00:09      Total Batch Wgt or Vol:      Lot ID: J11Z01

**Client:** Global Widget      Batch Date: 9/18/2023      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:

## 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:  
 034      9/20/2023 10:44      025      9/20/2023 12:12  
**Batch Reviewed By:**      Date/Time:      **Analysis #**  
 027      9/20/2023 12:39      2023\_09\_19 LC1 CAL PEST1.batch.bin  
**Specimen wt (g):**      Dilution:  
 1.0461      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:  
 022      9/21/2023 9:03      022      9/21/2023 9:06  
**Batch Reviewed By:**      Date/Time:      **Analysis #**  
 027      9/21/2023 9:22      2  
**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      9/20/2023 14:22      043      9/20/2023 14:28  
**Batch Reviewed By:**      Date/Time:      **Analysis #**  
 027      9/20/2023 15:31      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

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

**Sample Analyzed By:**      Date/Time:  
 031      9/19/2023 10:09  
**Batch Reviewed By:**      Date/Time:      **Analysis #**  
 027      9/19/2023 10:09      FF  
**Specimen wt (g):**  
 15.0  
**Analysis Method:**      **Instrument Used:**  
 TM-010 Filth and Foreign Material      Electronic Balance

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

09/21/2023 13:21





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Sampling Date: 9/18/2023 00:09	Total Batch Wgt or Vol:	Lot ID: J11Z01

<b>Client:</b> Global Widget	Batch Date: 9/18/2023	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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