


Prepared for:

**Muscle MX Restore CBD Lotion**
**MUSCLE MX LLC**


Batch ID or Lot Number: <b>RCL21290</b>	Test: <b>Potency</b>	Reported: <b>11/2/21</b>	Location: 498 West 8360 South Sandy, UT 84070
Matrix: Unit	Test ID: T000172519	Started: 11/1/21	USDA License: N/A
Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 10/29/2021 @ 10:26 AM	Sampler ID: N/A

**CANNABINOID PROFILE**

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	13.605	44.725	ND	ND	# of Servings = 1 Sample Weight=96g
Delta 9-Tetrahydrocannabinol (Delta 9THC)	15.356	50.480	ND	ND	
Cannabidiolic acid (CBDA)	16.382	53.944	ND	ND	
Cannabidiol (CBD)	15.973	52.595	1007.131	10.49	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	16.908	55.584	ND	ND	
Cannabinolic Acid (CBNA)	9.683	31.832	ND	ND	
Cannabinol (CBN)	4.429	14.560	11.186*	0.12*	
Cannabigerolic acid (CBGA)	14.192	46.656	ND	ND	
Cannabigerol (CBG)	3.395	11.161	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	12.000	39.450	ND	ND	
Tetrahydrocannabivarin (THCV)	3.088	10.152	ND	ND	
Cannabidivarinic Acid (CBDVA)	6.834	22.503	ND	ND	
Cannabidivarin (CBDV)	3.778	12.439	ND	ND	
Cannabichromenic Acid (CBCA)	5.469	17.979	ND	ND	
Cannabichromene (CBC)	5.979	19.657	ND	ND	
<b>Total Cannabinoids</b>			<b>1018.317</b>	<b>10.61</b>	
Total Potential THC**			ND	ND	
Total Potential CBD**			1007.131	10.49	


 Hannah Wright  
 02-Nov-2021  
 06:09 PM

PREPARED BY / DATE


 Daniel Weidensaul  
 2-Nov-21  
 6:25 PM

APPROVED BY / DATE

**Definitions**

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

\*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

$$\text{Total THC} = \text{THC} + (\text{THCa} \times 0.877)$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} \times 0.877)$$

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



CDPHE Certified



Certificate #4329.02

Prepared for:

**Muscle MX Restore CBD Lotion****MUSCLE MX LLC**

Batch ID or Lot Number: <b>RCL21290</b>	Test: <b>Potency</b>	Reported: <b>12/2/21</b>	Location: 498 West 8360 South Sandy, UT 84070
Matrix: Unit	Test ID: T000172519	Started: 11/1/21	USDA License: N/A
Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 10/29/2021 @ 10:26 AM	Sampler ID: N/A

(CoA amended to included photo on page 2 per customer request)

**SAMPLE PHOTO**

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



Certificate #4329.02


Prepared for:

**Restore CBD Lotion**
**MUSCLE MX LLC**

Batch ID or Lot Number: <b>RCL21290</b>	Test: <b>Metals</b>	Reported: <b>11/11/21</b>	Location: 498 West 8360 South Sandy, UT 84070
Matrix: Unit	Test ID: T000175069	Started: 11/10/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals	Received: 11/08/2021 @ 09:55 AM	Sampler ID: N/A

**HEAVY METALS DETERMINATION**

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.044 - 4.39	ND	
Cadmium	0.043 - 4.30	ND	
Mercury	0.044 - 4.36	ND	
Lead	0.044 - 4.38	ND	


 Sam Smith  
 11-Nov-21  
 1:27 PM

PREPARED BY / DATE


 Daniel Weidensaul  
 11-Nov-21  
 1:39 PM

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**Definitions**

ND = None Detected (Defined by Dynamic Range of the method)

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Prepared for:


**Restore CBD Lotion**
**MUSCLE MX LLC**

Batch ID or Lot Number: <b>RCL21290</b>	Test: <b>Residual Solvents</b>	Reported: <b>11/11/21</b>	Location: 498 West 8360 South Sandy, UT 84070
Matrix: N/A	Test ID: t000175070	Started: 11/9/21	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solvents	Received: 11/08/2021 @ 09:55 AM	Sampler ID: N/A

**RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
<b>Propane</b>	86 - 1723	*ND	
<b>Butanes</b> (Isobutane, n-Butane)	173 - 3455	*ND	
<b>Methanol</b>	55 - 1092	*ND	
<b>Pentane</b>	96 - 1447	*ND	
<b>Ethanol</b>	78 - 1554	*ND	
<b>Acetone</b>	87 - 1749	*ND	
<b>Isopropyl Alcohol</b>	93 - 1862	*ND	
<b>Hexane</b>	5 - 106	*ND	
<b>Ethyl Acetate</b>	90 - 1794	*ND	
<b>Benzene</b>	0.2 - 3.8	*ND	
<b>Heptanes</b>	87 - 1737	*ND	
<b>Toluene</b>	17 - 335	*ND	
<b>Xylenes</b> (m,p,o-Xylenes)	123 - 2460	*ND	


 Sam Smith  
 11-Nov-21  
 5:49 PM


 Ryan Weems  
 11-Nov-21  
 5:52 PM

PREPARED BY / DATE

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**Definitions**

\* ND = None Detected (Defined by Dynamic Range of the method)

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Prepared for:


**Restore CBD Lotion**
**MUSCLE MX LLC**

Batch ID or Lot Number: <b>RCL21290</b>	Test: <b>Pesticides</b>	Reported: <b>11/11/21</b>	Location: 498 West 8360 South Sandy, UT 84070
Matrix: Concentrate	Test ID: T000175067	Started: 11/10/21	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 11/08/2021 @ 09:55 AM	Sampler ID: N/A

**PESTICIDE DETERMINATION**

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	53	ND	Fenoxycarb	62	ND	Paclobutrazol	58	ND
Acetamiprid	54	ND	Fipronil	86	ND	Permethrin	380	ND
Avermectin	473	ND	Flonicamid	67	ND	Phosmet	58	ND
Azoxystrobin	59	ND	Fludioxonil	412	ND	Prophos	358	ND
Bifenazate	54	ND	Hexythiazox	50	ND	Propoxur	54	ND
Boscalid	70	ND	Imazalil	357	ND	Pyridaben	364	ND
Carbaryl	51	ND	Imidacloprid	58	ND	Spinosad A	45	ND
Carbofuran	53	ND	Kresoxim-methyl	150	ND	Spinosad D	65	ND
Chlorantraniliprole	70	ND	Malathion	363	ND	Spiromesifen	337	ND
Chlorpyrifos	500	ND	Metalaxyl	56	ND	Spirotetramat	388	ND
Clofentezine	355	ND	Methiocarb	55	ND	Spiroxamine 1	24	ND
Diazinon	359	ND	Methomyl	52	ND	Spiroxamine 2	32	ND
Dichlorvos	371	ND	MGK 264 1	200	ND	Tebuconazole	357	ND
Dimethoate	56	ND	MGK 264 2	148	ND	Thiacloprid	54	ND
E-Fenpyroximate	369	ND	Myclobutanil	54	ND	Thiamethoxam	57	ND
Etofenprox	55	ND	Naled	58	ND	Trifloxystrobin	54	ND
Etoxazole	379	ND	Oxamyl	1500	ND			

  
 Daniel Weidensaul  
 11/11/2021  
 12:07:00 PM

  
 Sam Smith  
 11/11/2021  
 12:15:00 PM

PREPARED BY / DATE

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**Definitions**

LOQ = Limit of Quantification  
 ppb = Parts per Billion

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Certificate #4329.02

## Restore CBD Lotion

<b>Batch ID:</b>	RCL21290	<b>Test ID:</b>	T000175068
<b>Matrix:</b>	Finished Product	<b>Received:</b>	11/08/2021 @ 09:55 AM
<b>Test:</b>	Microbial Contaminants	<b>Started:</b>	11/8/2021
<b>Method:</b>	TM25 (qPCR) TM24, TM26, TM27, TM28 (Culture Plating)	<b>Reported:</b>	11/11/2021

## MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	LLOQ	ULOQ	Result
<b>Total Aerobic Count*</b>	TM-26 Culture Plating	10 <sup>2</sup> CFU/g	10 <sup>3</sup> CFU/g	1.5x10 <sup>5</sup> CFU/g	<b>None Detected</b>
<b>Total Coliforms*</b>	TM-27 Culture Plating	10 <sup>1</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	<b>None Detected</b>
<b>Total Yeast and Molds*</b>	TM-24 Culture Plating	10 <sup>1</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	<b>None Detected</b>
<b><i>E. coli</i></b>	TM-28 Culture Plating	1 CFU/g	NA	NA	<b>Absent</b>
<b><i>E. coli</i> (STEC)</b>	TM-25 PCR	1 CFU/g	NA	NA	<b>Absent</b>
<b><i>Salmonella</i></b>	TM-25 PCR	1 CFU/g	NA	NA	<b>Absent</b>

\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10<sup>2</sup> = 100 CFU  
 10<sup>3</sup> = 1,000 CFU  
 10<sup>4</sup> = 10,000 CFU  
 10<sup>5</sup> = 100,000 CFU

## NOTES:

Free from visual mold, mildew, and foreign matter

## DEFINITIONS:

CFU/g = Colony Forming Units per Gram.

LOD = Limit of Detection

ULOQ = Upper Limit of Quantitation

LLOQ = Lower Limit of Quantitation

## FINAL APPROVAL



Carly Bader  
 11/11/2021  
 12:13:00 PM



Brett Hudson  
 11/11/2021  
 3:22:00 PM

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