

Prepared for:

**Recovery Tub**
**MUSCLE MX LLC**

Batch ID or Lot Number: <b>RCT100621</b>	Test: <b>Potency</b>	Reported: <b>10/25/21</b>	Location: 498 West 8360 South Sandy, UT 84070
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Matrix: Unit	Test ID: T000170564	Started: 10/22/21	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC (Colorado Panel)	Received: 10/18/2021 @ 02:18 PM	Sampler ID: N/A
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**CANNABINOID PROFILE**

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	8.769	28.095	ND	ND	# of Servings = 1 Sample Weight=350g
Delta 9-Tetrahydrocannabinol (Delta 9THC)	9.898	31.710	ND	ND	
Cannabidiolic acid (CBDA)	70.916	201.059	ND	ND	
Cannabidiol (CBD)	69.143	196.031	1833.711	5.24	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	61.395	205.468	ND	ND	
Cannabinolic Acid (CBNA)	35.160	117.668	ND	ND	
Cannabinol (CBN)	16.082	53.822	ND	ND	
Cannabigerolic acid (CBGA)	51.534	172.466	ND	ND	
Cannabigerol (CBG)	12.328	41.256	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	43.574	145.828	ND	ND	
Tetrahydrocannabivarin (THCV)	11.213	37.526	ND	ND	
Cannabidivarinic Acid (CBDVA)	29.583	83.872	ND	ND	
Cannabidivarin (CBDV)	16.353	46.363	ND	ND	
Cannabichromenic Acid (CBCA)	19.859	66.462	ND	ND	
Cannabichromene (CBC)	21.712	72.663	ND	ND	
<b>Total Cannabinoids</b>			<b>1833.711</b>	<b>5.24</b>	
Total Potential THC**			ND	ND	
Total Potential CBD**			1833.711	5.24	


 Jacob Miller  
 25-Oct-2021  
 06:52 PM


 Ryan Weems  
 25-Oct-21  
 6:53 PM

PREPARED BY / DATE

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.

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

$$\text{Total CBD} = \text{CBD} + (\text{CBDA} * (0.877))$$

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:

**Recovery Tub****MUSCLE MX LLC**

Batch ID or Lot Number: <b>RCT100621</b>	Test: <b>Potency</b>	Reported: <b>12/2/21</b>	Location: 498 West 8360 South Sandy, UT 84070
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Matrix: Unit	Test ID: T000170564	Started: 10/22/21	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC (Colorado Panel)	Received: 10/18/2021 @ 02:18 PM	Sampler ID: N/A
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(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.



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Prepared for:

**Recovery Tub**
**MUSCLE MX LLC**


Batch ID or Lot Number: <b>RCT100621</b>	Test: <b>Metals</b>	Reported: <b>11/10/21</b>	Location: 498 West 8360 South Sandy, UT 84070
Matrix: Unit	Test ID: T000175005	Started: 11/9/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS); Heavy Metals	Received: 11/05/2021 @ 02:07 PM	Sampler ID: N/A

**HEAVY METALS DETERMINATION**

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.040 - 4.01	ND	
Cadmium	0.040 - 4.04	ND	
Mercury	0.041 - 4.11	ND	
Lead	0.040 - 4.04	ND	


 Sam Smith  
 10-Nov-21  
 10:17 AM

PREPARED BY / DATE


 Ryan Weems  
 10-Nov-21  
 10:20 AM

APPROVED BY / DATE

**Definitions**

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

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Prepared for:


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**MUSCLE MX LLC**

Batch ID or Lot Number: <b>RCT100621</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: t000175006	Started: 11/9/21	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solvents	Received: 11/05/2021 @ 02:07 PM	Sampler ID: N/A

**RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
<b>Propane</b>	78 - 1563	*ND	
<b>Butanes</b> (Isobutane, n-Butane)	157 - 3135	*ND	
<b>Methanol</b>	50 - 990	*ND	
<b>Pentane</b>	87 - 1312	*ND	
<b>Ethanol</b>	70 - 1410	*ND	
<b>Acetone</b>	79 - 1587	*ND	
<b>Isopropyl Alcohol</b>	84 - 1689	*ND	
<b>Hexane</b>	5 - 96	*ND	
<b>Ethyl Acetate</b>	81 - 1628	*ND	
<b>Benzene</b>	0.2 - 3.5	*ND	
<b>Heptanes</b>	79 - 1576	*ND	
<b>Toluene</b>	15 - 304	*ND	
<b>Xylenes</b> (m,p,o-Xylenes)	112 - 2232	*ND	


 Sam Smith  
 11-Nov-21  
 5:49 PM


 Ryan Weems  
 11-Nov-21  
 5:52 PM

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**Definitions**

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

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Prepared for:

**Recovery Tub**
**MUSCLE MX LLC**

Batch ID or Lot Number: <b>RCT100621</b>	Test: <b>Pesticides</b>	Reported: <b>11/11/21</b>	Location: 498 West 8360 South Sandy, UT 84070
Matrix: Concentrate	Test ID: T000175004	Started: 11/10/21	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 11/05/2021 @ 02:07 PM	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


Prepared for:


**MUSCLE MX LLC**
**Recovery Tub**

Batch ID or Lot Number: <b>RCT100621</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>11/8/21</b>	Location: 498 West 8360 South Sandy, UT 84070
Matrix: Finished Product	Test ID: T000173274	Started: 11/4/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 10/28/2021 @ 11:16 AM	Sampler ID: N/A

**MICROBIAL CONTAMINANTS DETERMINATION**

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
<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	None Detected	Free from visual mold, mildew, and foreign matter
<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	None Detected	
<b>Total Yeast and Mold*</b>	TM-24, Culture Plating	10 <sup>1</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>E. coli (STEC)</b>	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
<b>Salmonella</b>	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	

  
 Brianne Maillot  
 11/8/2021  
 3:34:00 PM

  
 Brett Hudson  
 11/8/2021  
 5:07:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

 CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

\* 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

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