

Prepared for:  
**MUSCLE MX LLC**498 West 8360 South  
Sandy, UT USA 84070**Muscle MX Relax Gummies 25mg**

Batch ID or Lot Number: <b>RG25-10211A</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 7 of 7
Reported: <b>05May2022</b>	Started: 03May2022	Received: 02May2022	



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. ISO/IEC 17025:2017 Accredited by A2LA. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).

Cert #4329.02  
852a57a168dd47cd8382f0a26417fe.1

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**Cannabinoids**

Test ID: T000205694

Methods: TM14 (HPLC-DAD): Potency - Broad  
Spectrum Analysis, 0.01% THC

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.224	0.699	0.904	0.31	
Cannabichromenic Acid (CBCA)	0.205	0.639	ND	ND	
Cannabidiol (CBD)	0.590	1.867	25.055	8.56	
Cannabidiolic Acid (CBDA)	0.605	1.915	ND	ND	
Cannabidivarin (CBDV)	0.140	0.442	0.224*	0.08*	
Cannabidivarinic Acid (CBDVA)	0.252	0.799	ND	ND	
Cannabigerol (CBG)	0.127	0.397	0.456	0.16	
Cannabigerolic Acid (CBGA)	0.531	1.659	ND	ND	
Cannabinol (CBN)	0.166	0.518	2.229	0.76	
Cannabinolic Acid (CBNA)	0.362	1.132	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.632	1.976	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.096	0.299	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.085	0.265	ND	ND	
Tetrahydrocannabivarin (THCV)	0.115	0.361	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.449	1.402	ND	ND	
<b>Total Cannabinoids</b>			<b>28.868</b>	<b>9.86</b>	
Total Potential THC			ND	ND	
Total Potential CBD			25.055	8.56	

**Final Approval**  
Karen Winternheimer  
05May2022  
01:49:00 PM MDT  
PREPARED BY / DATE  
Karen Winternheimer  
05May2022  
01:51:00 PM MDT  
APPROVED BY / DATE

Prepared for:  
**MUSCLE MX LLC**

498 West 8360 South  
Sandy, UT USA 84070

**Muscle MX Relax Gummies 25mg**

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**Terpenes**

Test ID: T000205695

Methods: TM22 (GC-MS)

	<b>%(w/w)</b>	<b>(mg/g)</b>
(-)-alpha-Bisabolol	0.0000	0.0000
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0000	0.0000
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0000	0.0000
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.0000	0.0000
beta-Myrcene	0.0000	0.0000
beta-Ocimene	0.0000	0.0000
Camphene	0.0000	0.0000
cis-Nerolidol	0.0000	0.0000
d-Limonene	0.0000	0.0000
delta-3-Carene	0.0000	0.0000
Eucalyptol	0.0000	0.0000
gamma-Terpinene	0.0000	0.0000
Geraniol	0.0000	0.0000
Linalool	0.0000	0.0000
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0000	0.0000
	<b>0.0000</b>	<b>0.0000</b>

**0.0000%**  
Total  
Terpenes

**PREDOMINANT TERPENES**

- (-)-alpha-Bisabolol** 0.0000
- (-)-beta-Pinene** 0.0000
- alpha-Humulene** 0.0000
- alpha-Pinene** 0.0000
- alpha-Terpinene** 0.0000
- beta-Caryophyllene** 0.0000
- beta-Myrcene** 0.0000
- d-Limonene** 0.0000
- delta-3-Carene** 0.0000
- Linalool** 0.0000

**Notes**

**Final Approval**

  
 Ryan Weems  
 09May2022  
 12:57:00 PM MDT  
 PREPARED BY / DATE

  
 Jacob Miller  
 09May2022  
 12:59:00 PM MDT  
 APPROVED BY / DATE

Prepared for:  
**MUSCLE MX LLC**  
 498 West 8360 South  
 Sandy, UT USA 84070

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**Pesticides**


Test ID: T000205696

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	370 - 2591	ND		Malathion	276 - 2732	ND
Acephate	43 - 2785	ND		Metalaxyl	43 - 2677	ND
Acetamiprid	39 - 2764	ND		Methiocarb	45 - 2770	ND
Azoxystrobin	50 - 2751	ND		Methomyl	41 - 2768	ND
Bifenazate	38 - 2689	ND		MGK 264 1	164 - 1632	ND
Boscalid	41 - 2829	ND		MGK 264 2	115 - 1148	ND
Carbaryl	39 - 2732	ND		Myclobutanil	35 - 2826	ND
Carbofuran	43 - 2727	ND		Naled	50 - 2755	ND
Chlorantraniliprole	57 - 2716	ND		Oxamyl	39 - 2787	ND
Chlorpyrifos	41 - 2676	ND		Paclobutrazol	40 - 2708	ND
Clofentezine	290 - 2773	ND		Permethrin	281 - 2618	ND
Diazinon	266 - 2710	ND		Phosmet	42 - 2702	ND
Dichlorvos	278 - 2799	ND		Prophos	265 - 2783	ND
Dimethoate	46 - 2748	ND		Propoxur	42 - 2732	ND
E-Fenpyroximate	279 - 2765	ND		Pyridaben	298 - 2651	ND
Etofenprox	44 - 2712	ND		Spinosad A	33 - 2264	ND
Etoxazole	303 - 2667	ND		Spinosad D	52 - 487	ND
Fenoxycarb	32 - 2691	ND		Spiromesifen	302 - 2674	ND
Fipronil	10 - 2618	ND		Spirotetramat	273 - 2683	ND
Flonicamid	49 - 2710	ND		Spiroxamine 1	18 - 1194	ND
Fludioxonil	268 - 2761	ND		Spiroxamine 2	25 - 1593	ND
Hexythiazox	46 - 2678	ND		Tebuconazole	284 - 2681	ND
Imazalil	273 - 2705	ND		Thiacloprid	42 - 2776	ND
Imidacloprid	44 - 2772	ND		Thiamethoxam	48 - 2749	ND
Kresoxim-methyl	37 - 2663	ND		Trifloxystrobin	43 - 2768	ND

**Final Approval**

 Karen Winternheimer  
 05May2022  
 09:21:00 AM MDT  
 PREPARED BY / DATE

 Karen Winternheimer  
 05May2022  
 09:24:00 AM MDT  
 APPROVED BY / DATE

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**Heavy Metals**

Test ID: T000205698

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.67	ND	
Cadmium	0.05 - 4.82	ND	
Mercury	0.05 - 4.54	ND	
Lead	0.03 - 3.04	ND	

**Final Approval**  
Daniel Weidensaul  
10May2022  
07:11:00 PM MDT

PREPARED BY / DATE

  
Ryan Weems  
10May2022  
07:15:00 PM MDT

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/852a57a1-68dd-47cd-8382-f0a26417fe1e>**Definitions**

LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method). Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa \*(0.877)) and Total CBD = CBD + (CBDa \*(0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa \*(0.877)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. 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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**Microbial Contaminants**

Test ID: T000205697

Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

**Final Approval**



Carly Bader  
06May2022  
08:58:00 AM MDT



Brett Hudson  
06May2022  
09:33:00 AM MDT

PREPARED BY / DATE

APPROVED BY / DATE

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**Residual Solvents**

Test ID: T000205699

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	73 - 1466	ND	
Butanes (Isobutane, n-Butane)	155 - 3103	ND	
Methanol	64 - 1280	ND	
Pentane	88 - 1752	ND	
Ethanol	89 - 1781	ND	
Acetone	102 - 2032	ND	
Isopropyl Alcohol	105 - 2103	ND	
Hexane	6 - 125	ND	
Ethyl Acetate	103 - 2056	ND	
Benzene	0.2 - 4.1	ND	
Heptanes	97 - 1935	ND	
Toluene	19 - 376	ND	
Xylenes (m,p,o-Xylenes)	136 - 2723	ND	

**Final Approval**  
PREPARED BY / DATE  
Sam Smith  
05May2022  
03:54:00 PM MDT  
APPROVED BY / DATE  
Hannah Wright  
05May2022  
03:54:00 PM MDT