

Prepared for:
MUSCLE MX LLC

498 West 8360 South
Sandy, UT USA 84070

Muscle MX Energy CBD Gummy Bottle

Batch ID or Lot Number: MXZ5ENGM_23	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 6 of 6
Reported: 20Jun2023	Started: 18Jun2023	Received: 14Jun2023	



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Cert #4329.02
4404739df0794b0d92cf7cd2fff52875.1

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Cannabinoids


Test ID: T000246254

Methods: TM14 (HPLC-DAD): Potency - Broad

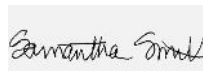
Spectrum Analysis, 0.01% THC

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.278	0.868	ND	ND	# of Servings = 1 Sample Weight=3.344g
Cannabichromenic Acid (CBCA)	0.254	0.794	ND	ND	
Cannabidiol (CBD)	0.769	2.164	29.552	8.84	
Cannabidiolic Acid (CBDA)	0.789	2.219	ND	ND	
Cannabidivarin (CBDV)	0.182	0.512	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.329	0.926	ND	ND	
Cannabigerol (CBG)	0.158	0.493	9.352	2.80	
Cannabigerolic Acid (CBGA)	0.659	2.060	ND	ND	
Cannabinol (CBN)	0.206	0.643	ND	ND	
Cannabinolic Acid (CBNA)	0.449	1.406	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.785	2.455	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.119	0.372	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.105	0.329	ND	ND	
Tetrahydrocannabivarin (THCV)	0.143	0.448	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.557	1.742	ND	ND	
Total Cannabinoids			38.904	11.64	
Total Potential THC			ND	ND	
Total Potential CBD			29.552	8.84	

Final Approval

 Karen Winternheimer
21Jun2023
03:05:00 PM MDT

PREPARED BY / DATE

 Sam Smith
21Jun2023
03:06:00 PM MDT

APPROVED BY / DATE


Heavy Metals

Test ID: T000246257


Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.34	ND	
Cadmium	0.05 - 4.81	ND	
Mercury	0.05 - 4.68	ND	
Lead	0.09 - 8.80	ND	

Final Approval

 Sam Smith
21Jun2023
01:32:00 PM MDT

PREPARED BY / DATE

 Karen Winternheimer
21Jun2023
01:35:00 PM MDT

APPROVED BY / DATE

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Muscle MX Energy CBD Gummy Bottle

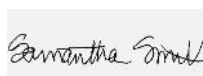
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Residual Solvents

Test ID: T000246258
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	119 - 2389	ND	
Butanes (Isobutane, n-Butane)	240 - 4802	ND	
Methanol	65 - 1309	ND	
Pentane	117 - 2341	ND	
Ethanol	105 - 2104	ND	
Acetone	110 - 2197	ND	
Isopropyl Alcohol	103 - 2070	ND	
Hexane	7 - 138	ND	
Ethyl Acetate	109 - 2180	ND	
Benzene	0.2 - 4.1	ND	
Heptanes	114 - 2273	ND	
Toluene	18 - 365	ND	
Xylenes (m,p,o-Xylenes)	124 - 2477	ND	

Final Approval


Sam Smith
20Jun2023
01:00:00 PM MDT
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Karen Winternheimer
20Jun2023
12:59:00 PM MDT
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Microbial Contaminants


Test ID: T000246256

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

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval


Eden Thompson-Wright
21Jun2023
10:14:00 AM MDT
PREPARED BY / DATE


Brianne Maillot
21Jun2023
10:19:00 AM MDT
APPROVED BY / DATE

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Mycotoxins

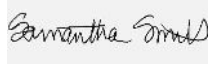
Test ID: T000246259


Methods: TM18 (UHPLC-QQQ)

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.40 - 134.06	ND	N/A
Aflatoxin B1	0.97 - 32.62	ND	
Aflatoxin B2	0.97 - 32.65	ND	
Aflatoxin G1	1.01 - 32.91	ND	
Aflatoxin G2	1.01 - 33.08	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Samantha Smith
23Jun2023
01:33:00 PM MDT
PREPARED BY / DATE


Karen Winternheimer
23Jun2023
01:36:00 PM MDT
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/4404739d-f079-4b0d-92cf-7cd2ff52875>

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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU.

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Pesticides

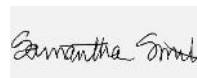
Test ID: T000246255

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	359 - 2662	ND		Malathion	313 - 2747	ND
Acephate	42 - 2788	ND		Metalaxyl	43 - 2758	ND
Acetamiprid	45 - 2762	ND		Methiocarb	40 - 2804	ND
Azoxystrobin	46 - 2737	ND		Methomyl	43 - 2762	ND
Bifenazate	42 - 2752	ND		MGK 264 1	177 - 1685	ND
Boscalid	45 - 2816	ND		MGK 264 2	126 - 1066	ND
Carbaryl	42 - 2713	ND		Myclobutanil	40 - 2798	ND
Carbofuran	44 - 2721	ND		Naled	47 - 2746	ND
Chlorantraniliprole	39 - 2775	ND		Oxamyl	42 - 2779	ND
Chlorpyrifos	37 - 2717	ND		Paclobutrazol	46 - 2719	ND
Clofentezine	279 - 2768	ND		Permethrin	295 - 2705	ND
Diazinon	297 - 2737	ND		Phosmet	39 - 2766	ND
Dichlorvos	258 - 2752	ND		Prophos	298 - 2802	ND
Dimethoate	42 - 2735	ND		Propoxur	44 - 2715	ND
E-Fenpyroximate	288 - 2720	ND		Pyridaben	294 - 2688	ND
Etofenprox	42 - 2698	ND		Spinosad A	31 - 2075	ND
Etoxazole	295 - 2696	ND		Spinosad D	67 - 664	ND
Fenoxycarb	18 - 2770	ND		Spiromesifen	288 - 2694	ND
Fipronil	41 - 2829	ND		Spirotetramat	296 - 2800	ND
Flonicamid	47 - 2822	ND		Spiroxamine 1	16 - 1250	ND
Fludioxonil	319 - 2813	ND		Spiroxamine 2	22 - 1552	ND
Hexythiazox	43 - 2735	ND		Tebuconazole	310 - 2775	ND
Imazalil	278 - 2786	ND		Thiacloprid	44 - 2756	ND
Imidacloprid	40 - 2763	ND		Thiamethoxam	44 - 2791	ND
Kresoxim-methyl	41 - 2808	ND		Trifloxystrobin	43 - 2724	ND

Final Approval


Karen Winternheimer
22Jun2023
12:35:00 PM MDT
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Sam Smith
22Jun2023
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