

Prepared for:
MUSCLE MX LLC

498 West 8360 South
Sandy, UT USA 84070

Muscle MX Restore CBD Lotion

Batch ID or Lot Number: RCL23159	Test, Test ID and Methods: Various	Matrix: Topical	Page 6 of 6
Reported: 21Jun2023	Started: 21Jun2023	Received: 20Jun2023	



Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. 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](#).



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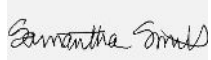
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Heavy Metals


Test ID: T000246848
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.03 - 3.03	ND	
Cadmium	0.05 - 4.73	ND	
Mercury	0.04 - 4.22	ND	
Lead	0.04 - 3.87	ND	

Final Approval


Sam Smith
25Jun2023
10:53:00 AM MDT

PREPARED BY / DATE


Karen Winternheimer
25Jun2023
11:08:00 AM MDT

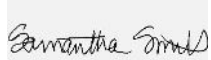
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Cannabinoids

Test ID: T000246845
Methods: TM14 (HPLC-DAD): Potency - Broad
Spectrum Analysis, 0.01% THC

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	7.650	22.397	<LOQ	<LOQ	# of Servings = 1 Sample Weight=96g
Cannabichromenic Acid (CBCA)	6.997	20.485	ND	ND	
Cannabidiol (CBD)	19.973	57.393	966.595	10.07	
Cannabidiolic Acid (CBDA)	20.485	58.865	ND	ND	
Cannabidivarin (CBDV)	4.724	13.574	ND	ND	
Cannabidivarinic Acid (CBDVA)	8.545	24.556	ND	ND	
Cannabigerol (CBG)	4.343	12.716	ND	ND	
Cannabigerolic Acid (CBGA)	18.156	53.158	ND	ND	
Cannabinol (CBN)	5.666	16.589	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	12.387	36.268	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	21.631	63.330	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	3.274	9.586	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	2.901	8.493	ND	ND	
Tetrahydrocannabivarin (THCV)	3.950	11.566	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	15.352	44.948	ND	ND	
Total Cannabinoids			966.595	10.07	
Total Potential THC			ND	ND	
Total Potential CBD			966.595	10.07	

Final Approval


Sam Smith
26Jun2023
03:18:00 PM MDT

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Karen Winternheimer
26Jun2023
03:22:00 PM MDT

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Residual Solvents

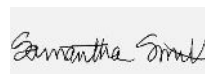
Test ID: T000246849

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	110 - 2193	ND	
Butanes (Isobutane, n-Butane)	220 - 4402	ND	
Methanol	66 - 1322	ND	
Pentane	111 - 2224	ND	
Ethanol	111 - 2224	ND	
Acetone	108 - 2167	ND	
Isopropyl Alcohol	111 - 2221	ND	
Hexane	7 - 130	ND	
Ethyl Acetate	110 - 2203	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	111 - 2212	ND	
Toluene	19 - 382	ND	
Xylenes (m,p,o-Xylenes)	142 - 2833	ND	

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Karen Winternheimer
21Jun2023
03:45:00 PM MDT
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Sam Smith
21Jun2023
03:48:00 PM MDT
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Mycotoxins

Test ID: T000246850
Methods: TM18 (UHPLC-QQQ)
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.41 - 135.75	ND	N/A
Aflatoxin B1	0.99 - 33.03	ND	
Aflatoxin B2	0.99 - 33.07	ND	
Aflatoxin G1	1.02 - 33.33	ND	
Aflatoxin G2	1.02 - 33.49	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
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Microbial Contaminants

Test ID: T000246847
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
Salmonella	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


Brett Hudson
23Jun2023
03:46:00 PM MDT
PREPARED BY / DATE


Eden Thompson-Wright
23Jun2023
03:51:00 PM MDT
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Pesticides

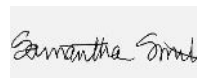
Test ID: T000246846

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
PREPARED BY / DATE


Sam Smith
22Jun2023
12:41:00 PM MDT
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<https://results.botanacor.com/api/v1/coas/uuid/5a9e0108-f87b-47c9-8ba9-ef368e4c42ef>

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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