

Prepared for:
MUSCLE MX LLC

498 West 8360 South
Sandy, UT USA 84070

Muscle MX Balance CBD Berry Drops

Batch ID or Lot Number: MXBALB_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
954ac6b8738a4d8c86788458c419611a.1

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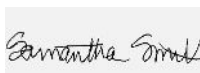
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Cannabinoids

Test ID: T000246272
Methods: TM14 (HPLC-DAD): Potency - Full Spectrum
Analysis, 0.3% THC

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	2.120	6.630	29.069	0.97	# of Servings = 1 Sample Weight=30g
Cannabichromenic Acid (CBCA)	1.939	6.065	ND	ND	
Cannabidiol (CBD)	5.875	16.527	1027.198	34.24	
Cannabidiolic Acid (CBDA)	6.025	16.951	ND	ND	
Cannabidivarin (CBDV)	1.389	3.909	11.254	0.38	
Cannabidivarinic Acid (CBDVA)	2.514	7.071	ND	ND	
Cannabigerol (CBG)	1.204	3.765	11.467	0.38	
Cannabigerolic Acid (CBGA)	5.031	15.737	ND	ND	
Cannabinol (CBN)	1.570	4.911	8.525	0.28	
Cannabinolic Acid (CBNA)	3.433	10.737	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	5.994	18.749	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	5.444	17.027	62.707	2.09	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	4.823	15.086	ND	ND	
Tetrahydrocannabivarin (THCV)	1.095	3.424	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	4.254	13.307	ND	ND	
Total Cannabinoids			1150.220	38.34	
Total Potential THC			62.707	2.09	
Total Potential CBD			1027.198	34.24	

Final Approval

 Karen Winternheimer 21Jun2023 03:05:00 PM MDT PREPARED BY / DATE	 Sam Smith 21Jun2023 03:06:00 PM MDT APPROVED BY / DATE
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Heavy Metals

Test ID: T000246275
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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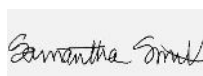
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Residual Solvents

Test ID: T000246276
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	111 - 2214	ND	
Butanes (Isobutane, n-Butane)	223 - 4451	ND	
Methanol	61 - 1213	ND	
Pentane	108 - 2170	ND	
Ethanol	97 - 1950	ND	
Acetone	102 - 2036	ND	
Isopropyl Alcohol	96 - 1918	ND	
Hexane	6 - 128	ND	
Ethyl Acetate	101 - 2020	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	105 - 2107	ND	
Toluene	17 - 338	ND	
Xylenes (m,p,o-Xylenes)	115 - 2296	ND	

Final Approval


Sam Smith
20Jun2023
01:00:00 PM MDT
PREPARED BY / DATE


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

Test ID: T000246274

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

 Edén 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: T000246277


Methods: TM18 (UHPLC-QQQ)

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.39 - 133.37	ND	N/A
Aflatoxin B1	0.97 - 32.45	ND	
Aflatoxin B2	0.97 - 32.49	ND	
Aflatoxin G1	1.00 - 32.75	ND	
Aflatoxin G2	1.00 - 32.91	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam 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/954ac6b8-738a-4d8c-8678-8458c419611a>

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

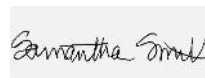
Test ID: T000246273

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
Etoazole	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
APPROVED BY / DATE