

Prepared for:

Recovery Stick
MUSCLE MX LLC

Batch ID or Lot Number: RCS100421	Test: Potency	Reported: 10/25/21	Location: 498 West 8360 South Sandy, UT 84070
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Matrix: Unit	Test ID: T000170561	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)	1.727	5.533	ND	ND	# of Servings = 1 Sample Weight=75g
Delta 9-Tetrahydrocannabinol (Delta 9THC)	1.949	6.245	ND	ND	
Cannabidiolic acid (CBDA)	13.967	39.598	ND	ND	
Cannabidiol (CBD)	13.617	38.608	404.236	5.39	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	12.092	40.466	ND	ND	
Cannabinolic Acid (CBNA)	6.925	23.174	ND	ND	
Cannabinol (CBN)	3.167	10.600	ND	ND	
Cannabigerolic acid (CBGA)	10.149	33.967	ND	ND	
Cannabigerol (CBG)	2.428	8.125	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	8.582	28.720	ND	ND	
Tetrahydrocannabivarin (THCV)	2.208	7.391	ND	ND	
Cannabidivarinic Acid (CBDVA)	5.826	16.518	ND	ND	
Cannabidivarin (CBDV)	3.221	9.131	ND	ND	
Cannabichromenic Acid (CBCA)	3.911	13.090	ND	ND	
Cannabichromene (CBC)	4.276	14.311	ND	ND	
Total Cannabinoids			404.236	5.39	
Total Potential THC**			ND	ND	
Total Potential CBD**			404.236	5.39	


 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 Stick**MUSCLE MX LLC**

Batch ID or Lot Number: RCS100421	Test: Potency	Reported: 12/2/21	Location: 498 West 8360 South Sandy, UT 84070
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Matrix: Unit	Test ID: T000170561	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:

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MUSCLE MX LLC


Batch ID or Lot Number: RCS100421	Test: Metals	Reported: 11/10/21	Location: 498 West 8360 South Sandy, UT 84070
Matrix: Unit	Test ID: T000175002	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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Recovery Stick


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Batch ID or Lot Number: RCS100421	Test: Residual Solvents	Reported: 11/11/21	Location: 498 West 8360 South Sandy, UT 84070
Matrix: N/A	Test ID: t000175003	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
Propane	90 - 1809	*ND	
Butanes (Isobutane, n-Butane)	181 - 3627	*ND	
Methanol	57 - 1146	*ND	
Pentane	101 - 1519	*ND	
Ethanol	82 - 1631	*ND	
Acetone	92 - 1836	*ND	
Isopropyl Alcohol	98 - 1955	*ND	
Hexane	6 - 111	*ND	
Ethyl Acetate	94 - 1883	*ND	
Benzene	0.2 - 4	*ND	
Heptanes	91 - 1824	*ND	
Toluene	18 - 351	*ND	
Xylenes (m,p,o-Xylenes)	129 - 2583	*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:

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Batch ID or Lot Number: RCS100421	Test: Pesticides	Reported: 11/11/21	Location: 498 West 8360 South Sandy, UT 84070
Matrix: Concentrate	Test ID: T000175001	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

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Definitions

LOQ = Limit of Quantification
 ppb = Parts per Billion

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Batch ID or Lot Number: RCS100421	Test: Microbial Contaminants	Reported: 11/8/21	Location: 498 West 8360 South Sandy, UT 84070
Matrix: Finished Product	Test ID: T000173270	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
Total Aerobic Count*	TM-26, Culture Plating	10 ² CFU/g	10 ³ CFU/g	1.5x10 ⁵ CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
Total Coliforms*	TM-27, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	


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

PREPARED BY / DATE


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

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

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