

1000mg MUSCLE CREAM

Batch ID: 19B1042611

Test ID: 3001951.0046

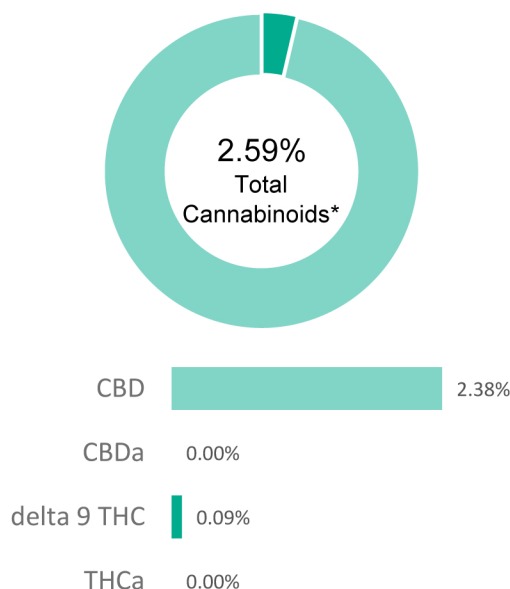
Reported: 4-Dec-2019

Method: TM14

Type: Concentrate

Test: Potency

CANNABINOID PROFILE



Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.01	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.01	0.09	0.9
Cannabidiolic acid (CBDA)	0.02	0.00	0.0
Cannabidiol (CBD)	0.01	2.38	23.8
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.01	0.00	0.0
Cannabinolic Acid (CBNA)	0.02	0.00	0.0
Cannabinol (CBN)	0.01	0.02	0.2
Cannabigerolic acid (CBGA)	0.01	0.00	0.0
Cannabigerol (CBG)	0.01	0.08	0.8
Tetrahydrocannabivarinic Acid (THCVA)	0.01	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.01	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.02	0.00	0.0
Cannabidivarin (CBDV)	0.01	0.00	0.0
Cannabichromenic Acid (CBCA)	0.01	0.00	0.0
Cannabichromene (CBC)	0.01	0.02	0.2
Total Cannabinoids		2.59	25.90
Total Potential THC**		0.09	0.90
Total Potential CBD**		2.38	23.80

NOTES:

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

** Total Potential THC/CBD 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)) and Total CBD = CBD + (CBDa *(0.877))

FINAL APPROVAL

Daniel Weidensaul
4-Dec-2019
3:02 PM

PREPARED BY / DATE

David Green
4-Dec-2019
3:51 PM

APPROVED BY / DATE

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 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02

MUSCLE CREAM 1000mg

Batch ID:	19B1040511	Test ID:	8101255.026
Reported:	10-Nov-2019	Method:	Topical - Test Methods: TM05, TM06
Type:	Topical		
Test:	Microbial Contaminants		

MICROBIAL CONTAMINANTS

Contaminant	Result (CFU/g)*
Total Aerobic Count**	None Detected
Total Coliforms**	None Detected
Total Yeast and Molds**	None Detected
E. coli	None Detected
Salmonella	None Detected

* CFU/g = Colony Forming Unit 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: 10^2 = 100 CFU
 10^3 = 1,000 CFU
 10^4 = 10,000 CFU
 10^5 = 100,000 CFU

NOTES:

Free from visual mold, mildew, and foreign matter

TYM: None Detected

Total Aerobic: None Detected

Coliforms: None Detected

FINAL APPROVAL

	Mara Miller 10-Nov-2019 4:33 PM		Mike Branvold 10-Nov-2019 6:55 PM
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PREPARED BY / DATE

APPROVED BY / DATE

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MUSCLE CREAM 1000mg

Batch ID:	19B1040511	Test ID:	3371092.009
Reported:	12-Nov-2019	Method:	TM17
Type:	Concentrate		
Test:	Pesticides		


PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	58 - 2681	ND*
Acetamiprid	58 - 2681	ND*
Avermectin	347 - 2681	ND*
Azoxystrobin	58 - 2681	ND*
Bifenazate	58 - 2681	ND*
Boscalid	347 - 2681	ND*
Carbaryl	58 - 2681	ND*
Carbofuran	58 - 2681	ND*
Chlorantraniliprole	58 - 2681	ND*
Chlorpyrifos	347 - 2681	ND*
Clofentezine	58 - 2681	ND*
Diazinon	58 - 2681	ND*
Dichlorvos	347 - 2681	ND*
Dimethoate	58 - 2681	ND*
E-Fenpyroximate	347 - 2681	ND*
Etofenprox	347 - 2681	ND*
Etoxazole	347 - 2681	ND*
Fenoxycarb	58 - 2681	ND*
Fipronil	347 - 2681	ND*
Flonicamid	58 - 2681	ND*
Fludioxonil	347 - 2681	ND*
Hexythiazox	347 - 2681	ND*
Imazalil	347 - 2681	ND*
Imidacloprid	58 - 2681	ND*
Kresoxim-methyl	58 - 2681	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	58 - 2681	ND*
Metalaxyl	347 - 2681	ND*
Methiocarb	58 - 2681	ND*
Methomyl	58 - 2681	ND*
MGK 264 1	58 - 2681	ND*
MGK 264 2	347 - 2681	ND*
Myclobutanil	347 - 2681	ND*
Naled	347 - 2681	ND*
Oxamyl	58 - 2681	ND*
Paclobutrazol	58 - 2681	ND*
Permethrin	347 - 2681	ND*
Phosmet	58 - 2681	ND*
Prophos	347 - 2681	ND*
Propoxur	347 - 2681	ND*
Pyridaben	347 - 2681	ND*
Spinosad A	58 - 2681	ND*
Spinosad D	347 - 2681	ND*
Spiromesifen	58 - 2681	ND*
Spirotetramat	347 - 2681	ND*
Spiroxamine 1	58 - 2681	ND*
Spiroxamine 2	58 - 2681	ND*
Tebuconazole	58 - 2681	ND*
Thiacloprid	58 - 2681	ND*
Thiamethoxam	58 - 2681	ND*
Trifloxystrobin	347 - 2681	ND*

* ND = None Detected (Defined by Dynamic Range of the method)

N/A

FINAL APPROVAL
Sam Smith
12-Nov-2019
9:22 AM

PREPARED BY / DATE


David Green
12-Nov-2019
9:52 AM

APPROVED BY / DATE

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.

MUSCLE CREAM 1000mg


Batch ID:	19B1040511	Test ID:	1997251.010
Reported:	12-Nov-2019	Method:	TM04
Type:	Concentrate		
Test:	Residual Solvents		

RESIDUAL SOLVENTS

Solvent	Reportable Range (ppm)	Result (ppm)
Propane	100 - 2000	0
Butanes (Isobutane, n-Butane)	100 - 2000	0
Pentane	100 - 2000	0
Ethanol	100 - 2000	0
Acetone	100 - 2000	0
Isopropyl Alcohol	100 - 2000	0
Hexane	6 - 120	0
Benzene	0.2 - 4	0.0
Heptanes	100 - 2000	0
Toluene	18 - 360	0
Xylenes (m,p,o-Xylenes)	43 - 860	0

NOTES:

Free from visual mold, mildew, and foreign matter.

FINAL APPROVAL
Alex Smith
12-Nov-2019
2:23 PM
David Green
12-Nov-2019
3:24 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

CERTIFICATE OF ANALYSIS



Collection Date: 04/12/2019
Order Date: 04/12/2019
Report Date: 04/19/2019
Order #699520
Batch # 2

Initial Weight: 35717.00/mg
Specimen Weight: 100.70/mg
Specimen Type: Flower
Extracted From: Hemp
Description: Brandon R1 Material

Heavy Metals

(ICP-MS)

Analyte	ppb	Analyte	ppb	Analyte	ppb
Arsenic (As)	ND	Cadmium (Cd)	ND	Lead (Pb)	1,000
Mercury (Hg)	ND				

Thomas Farrell, MD
Lab Director

* Total CBD = CBD + (CBD-A * 0.877). Total THC = THCA-A * 0.877 + Delta 9 THC. T-Caryophyllene = Trans-Caryophyllene. ND = Not Detected, QNS = Quantity Not Sufficient. (%) = Percent, (ppm) = Parts per Million, (cfu) = Colony Forming Unit, (ppb) = Parts per Billion, (µg/Kg) = Microgram per Kilogram, (mg/g) = Milligram per Gram.
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