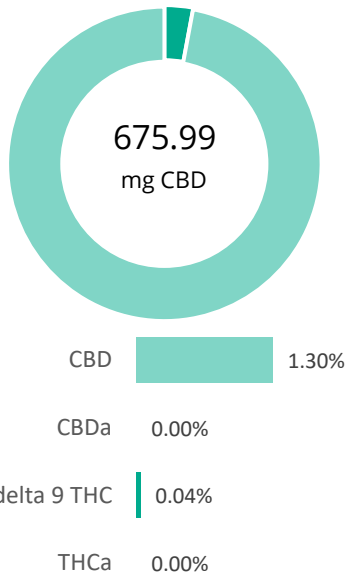


**Muscle Relief Cooling Cream**

<b>Batch ID:</b>	210628B	<b>Test ID:</b>	T000149531
<b>Type:</b>	Unit	<b>Submitted:</b>	07/02/2021 @ 01:15 PM
<b>Test:</b>	Potency	<b>Started:</b>	7/8/2021
<b>Method:</b>	TM14	<b>Reported:</b>	7/9/2021

**CANNABINOID PROFILE**


Compound	LOQ (mg)	Result (mg)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	12.42	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	14.02	20.41	0.4
Cannabidiolic acid (CBDA)	16.41	ND	ND
Cannabidiol (CBD)	16.00	675.99	13.0
Delta 8-Tetrahydrocannabinol (Delta 8THC)	15.44	ND	ND
Cannabinolic Acid (CBNA)	8.84	ND	ND
Cannabinol (CBN)	4.04	ND	ND
Cannabigerolic acid (CBGA)	12.96	ND	ND
Cannabigerol (CBG)	3.10	12.78	0.2
Tetrahydrocannabivarinic Acid (THCVA)	10.96	ND	ND
Tetrahydrocannabivarin (THCV)	2.82	ND	ND
Cannabidivarinic Acid (CBDVA)	6.84	ND	ND
Cannabidivarin (CBDV)	3.78	ND	ND
Cannabichromenic Acid (CBCA)	4.99	ND	ND
Cannabichromene (CBC)	5.46	23.79	0.5
<b>Total Cannabinoids</b>		<b>732.97</b>	<b>14.1</b>
Total Potential THC**		20.41	0.4
Total Potential CBD**		675.99	13.0

% = % (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.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$



$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

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

**NOTES:**

# of Servings = 1, Sample Weight=52g

**FINAL APPROVAL**

 <b>Michele Gagnon</b> 9-Jul-2021 4:44 PM	 <b>Daniel Weidensaul</b> 9-Jul-2021 4:48 PM
PREPARED BY / DATE	APPROVED BY / DATE

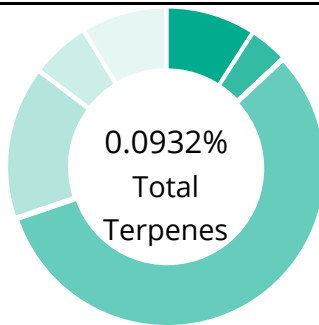
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Certificate #4329.02

**Muscle Relief Cooling Cream**

<b>Batch ID:</b>	210628B	<b>Test ID:</b>	T000149532
<b>Type:</b>	Topical	<b>Submitted:</b>	07/02/2021 @ 01:15 PM
<b>Test:</b>	Terpenes	<b>Started:</b>	7/6/2021
<b>Method:</b>	TM22	<b>Reported:</b>	7/7/2021

**TERPENE PROFILE**


Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0042	0.042
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.0075	0.075
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0020	0.020
Eucalyptol	0.0000	0.000
Geraniol	0.0000	0.000
alpha-Humulene	0.0029	0.029
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0000	0.000
Linalool	0.0000	0.000
beta-Myrcene	0.0019	0.019
cis-Nerolidol	0.0000	0.000
trans-Nerolidol	0.0000	0.000
Ocimene	0.0000	0.000
beta-Ocimene	0.0000	0.000
alpha-Pinene	0.0044	0.044
(-)-beta-Pinene	0.0000	0.000
alpha-Terpinene	0.0274	0.274
gamma-Terpinene	0.0369	0.369
Terpinolene	0.0060	0.060
	<b>0.0932</b>	<b>0.932</b>


**PREDOMINANT TERPENES**

alpha-Pinene	0.0044
(-)-beta-Pinene	0.0000
beta-Myrcene	0.0019
delta-3-Carene	0.0000
alpha-Terpinene	0.0274
d-Limonene	0.0000
Linalool	0.0000
beta-Caryophyllene	0.0075
alpha-Humulene	0.0029
(-)-alpha-Bisabolol	0.0042

## NOTES:

N/A

**FINAL APPROVAL**

 Rvan Weems 7-Jul-2021 3:01 PM	 Daniel Weidensaul 7-Jul-2021 3:04 PM
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PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

**Muscle Relief Cooling Cream**


<b>Batch ID:</b>	210628B	<b>Test ID:</b>	T000149533
<b>Type:</b>	Concentrate	<b>Submitted:</b>	07/02/2021 @ 01:15 PM
<b>Test:</b>	Pesticides	<b>Started:</b>	7/8/2021
<b>Method:</b>	TM17	<b>Reported:</b>	7/12/2021


**PESTICIDE RESIDUE**

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	43 - 2406	ND*	Malathion	295 - 2406	ND*
Acetamiprid	42 - 2406	ND*	Metalaxyl	44 - 2406	ND*
Abamectin	>308	ND*	Methiocarb	44 - 2406	ND*
Azoxystrobin	43 - 2406	ND*	Methomyl	45 - 2406	ND*
Bifenazate	40 - 2406	ND*	MGK 264 1	172 - 2406	ND*
Boscalid	39 - 2406	ND*	MGK 264 2	115 - 2406	ND*
Carbaryl	42 - 2406	ND*	Myclobutanil	40 - 2406	ND*
Carbofuran	44 - 2406	ND*	Naled	45 - 2406	ND*
Chlorantraniliprole	49 - 2406	ND*	Oxamyl	44 - 2406	ND*
Chlorpyrifos	41 - 2406	ND*	Paclobutrazol	44 - 2406	ND*
Clofentezine	294 - 2406	ND*	Permethrin	306 - 2406	ND*
Diazinon	286 - 2406	ND*	Phosmet	45 - 2406	ND*
Dichlorvos	>300	ND*	Prophos	301 - 2406	ND*
Dimethoate	48 - 2406	ND*	Proxoxur	45 - 2406	ND*
E-Fenproximate	303 - 2406	ND*	Pyridaben	296 - 2406	ND*
Etofenprox	43 - 2406	ND*	Spinosad A	28 - 2406	ND*
Etozazole	297 - 2406	ND*	Spinosad D	76 - 2406	ND*
Fenoxycarb	>35	ND*	Spiromesifen	>279	ND*
Fipronil	37 - 2406	ND*	Spirotetramat	>286	ND*
Flonicamid	46 - 2406	ND*	Spiroxamine 1	20 - 2406	ND*
Fludioxonil	>321	ND*	Spiroxamine 2	24 - 2406	ND*
Hexythiazox	47 - 2406	ND*	Tebuconazole	278 - 2406	ND*
Imazalil	285 - 2406	ND*	Thiacloprid	42 - 2406	ND*
Imidacloprid	46 - 2406	ND*	Thiamethoxam	46 - 2406	ND*
Kresoxim-methyl	52 - 2406	ND*	Trifloxystrobin	45 - 2406	ND*

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

N/A

**FINAL APPROVAL**

 Taylor Brevik  
 12-Jul-2021  
 4:20 PM


 Courtney Richards  
 12-Jul-2021  
 9:30 PM

PREPARED BY / DATE

APPROVED BY / DATE

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**Muscle Relief Cooling Cream**

<b>Batch ID:</b>	210628B	<b>Test ID:</b>	T000149534
<b>Matrix:</b>	Finished Product	<b>Received:</b>	07/02/2021 @ 01:15 PM
<b>Test:</b>	Microbial Contaminants	<b>Started:</b>	7/6/2021
<b>Method:</b>	TM24, TM25, TM26, TM27, TM28	<b>Reported:</b>	7/9/2021

**MICROBIAL CONTAMINANTS**

Contaminant	Method	LOD	LOQ	Result
<b>Total Aerobic Count*</b>	TM-26 Culture Plating	10 <sup>2</sup> CFU/gram	10 <sup>3</sup> CFU/gram	<b>None Detected</b>
<b>Total Coliforms*</b>	TM-27 Culture Plating	10 <sup>1</sup> CFU/gram	10 <sup>2</sup> CFU/gram	<b>None Detected</b>
<b>Total Yeast and Molds*</b>	TM-24 Culture Plating	10 <sup>1</sup> CFU/gram	10 <sup>2</sup> CFU/gram	<b>None Detected</b>
<b>E. coli</b>	TM-28 Culture Plating	1 CFU/gram	NA	<b>Absent</b>
<b>E. coli (STEC)</b>	TM-25 PCR	1 CFU/gram	NA	<b>Absent</b>
<b>Salmonella</b>	TM-25 PCR	1 CFU/gram	NA	<b>Absent</b>

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: 10<sup>2</sup> = 100 CFU  
 10<sup>3</sup> = 1,000 CFU  
 10<sup>4</sup> = 10,000 CFU  
 10<sup>5</sup> = 100,000 CFU

**NOTES:**

Free from visual mold, mildew, and foreign matter

TYM: None Detected

Total Aerobic: None Detected

Total Coliforms: None Detected

**FINAL APPROVAL**


Brianne Maillot  
 9-Jul-2021  
 1:48 PM



Courtney Richards  
 9-Jul-2021  
 5:32 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.03

## Muscle Relief Cooling Cream

<b>Batch ID:</b>	210628B	<b>Test ID:</b>	T000149535
<b>Type:</b>	Unit	<b>Submitted:</b>	07/02/2021 @ 01:15 PM
<b>Test:</b>	Metals	<b>Started:</b>	7/9/2021
<b>Method:</b>	TM19	<b>Reported:</b>	7/12/2021

## HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.047 - 4.72	ND
Cadmium	0.045 - 4.49	ND
Mercury	0.045 - 4.55	ND
Lead	0.040 - 4.03	ND

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

## FINAL APPROVAL



Ryan Weems  
12-Jul-2021  
4:59 PM

PREPARED BY / DATE



Daniel Weidensaul  
12-Jul-2021  
5:00 PM

APPROVED BY / DATE

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## Muscle Relief Cooling Cream

<b>Batch ID:</b>	210628B	<b>Test ID:</b>	T000149536
<b>Type:</b>	Topical	<b>Submitted:</b>	07/02/2021 @ 01:15 PM
<b>Test:</b>	Residual Solvents	<b>Started:</b>	7/9/2021
<b>Method:</b>	TM04	<b>Reported:</b>	7/9/2021

## RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
<b>Propane</b>	88 - 1764	*ND
<b>Butanes</b> (Isobutane, n-Butane)	173 - 3455	*ND
<b>Methanol</b>	66 - 1319	*ND
<b>Pentane</b>	96 - 1926	*ND
<b>Ethanol</b>	103 - 2063	*ND
<b>Acetone</b>	105 - 2099	*ND
<b>Isopropyl Alcohol</b>	114 - 2274	*ND
<b>Hexane</b>	7 - 130	*ND
<b>Ethyl Acetate</b>	107 - 2133	*ND
<b>Benzene</b>	0.2 - 4.3	*ND
<b>Heptanes</b>	101 - 2015	*ND
<b>Toluene</b>	19 - 387	*ND
<b>Xylenes</b> (m,p,o-Xylenes)	140 - 2806	*ND

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

## NOTES:

N/A

## FINAL APPROVAL

Daniel Weidensaul  
9-Jul-2021  
4:11 PMRyan Weems  
9-Jul-2021  
4:12 PM

PREPARED BY / DATE

APPROVED BY / DATE

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