

Prepared for:

**Muscle Relief Cooling Cream**

**ASPEN GREEN**

Batch ID or Lot Number: <b>220815B</b>	Test: <b>Potency</b>	Reported: <b>8/29/22</b>	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Unit	Test ID: T000219640	Started: 8/29/22	USDA License: N/A
Status: Active	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis	Received: 08/25/2022 @ 02:50 PM	Sampler ID: N/A

**CANNABINOID PROFILE**

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	7.563	22.810	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9THC)	8.536	25.745	46.516	0.89	# of Servings = 1 Sample Weight=52g
Cannabidiolic acid (CBDA)	6.982	25.930	<LOQ	0.40	
Cannabidiol (CBD)	6.807	25.282	1628.484	31.32	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	9.399	28.348	ND	ND	
Cannabinolic Acid (CBNA)	5.382	16.234	ND	ND	
Cannabinol (CBN)	2.462	7.426	<LOQ	0.05	
Cannabigerolic acid (CBGA)	7.889	23.795	ND	ND	
Cannabigerol (CBG)	1.887	5.692	28.026	0.54	
Tetrahydrocannabivarinic Acid (THCVA)	6.671	20.120	ND	ND	
Tetrahydrocannabivarin (THCV)	1.717	5.177	ND	ND	
Cannabidivarinic Acid (CBDVA)	2.912	10.817	ND	ND	
Cannabidivarin (CBDV)	1.610	5.979	9.076	0.17	
Cannabichromenic Acid (CBCA)	3.040	9.170	ND	ND	
Cannabichromene (CBC)	3.324	10.025	79.097	1.52	
<b>Total Cannabinoids</b>			<b>1814.412</b>	<b>34.89</b>	
Total Potential THC**			46.516	0.89	
Total Potential CBD**			1646.634	31.67	

Sam Smith  
29-Aug-22  
6:09 PM

PREPARED BY / DATE

Daniel Weidensaul  
29-Aug-22  
6:12 PM

APPROVED BY / DATE

**Definitions**

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

\*\* 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))

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

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

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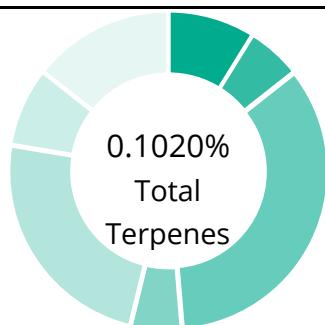


Certificate #4329.02

## Muscle Relief Cooling Cream

<b>Batch ID:</b>	220815B	<b>Test ID:</b>	T000218457
<b>Type:</b>	Topical	<b>Submitted:</b>	08/17/2022 @ 10:30 AM
<b>Test:</b>	Terpenes	<b>Started:</b>	8/18/2022
<b>Method:</b>	TM22 (GC-MS)	<b>Reported:</b>	8/19/2022

## TERPENE PROFILE



### PREDOMINANT TERPENES


alpha-Pinene	0.0043
(-)-beta-Pinene	0.0000
beta-Myrcene	0.0027
delta-3-Carene	0.0000
alpha-Terpinene	0.0167
d-Limonene	0.0025
Linalool	0.0000
beta-Caryophyllene	0.0116
alpha-Humulene	0.0039
(-)-alpha-Bisabolol	0.0070


Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0070	0.070
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.0116	0.116
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0031	0.031
Eucalyptol	0.0070	0.070
Geraniol	0.0000	0.000
alpha-Humulene	0.0039	0.039
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0025	0.025
Linalool	0.0000	0.000
beta-Myrcene	0.0027	0.027
cis-Nerolidol	0.0032	0.032
trans-Nerolidol	0.0000	0.000
Ocimene	0.0000	0.000
beta-Ocimene	0.0000	0.000
alpha-Pinene	0.0043	0.043
(-)-beta-Pinene	0.0000	0.000
alpha-Terpinene	0.0167	0.167
gamma-Terpinene	0.0343	0.343
Terpinolene	0.0057	0.057
	<b>0.1020</b>	<b>1.020</b>

### NOTES:

N/A

## FINAL APPROVAL

  
Daniel Weidensaul  
19-Aug-2022  
2:52 PM

  
Jacob Miller  
19-Aug-2022  
2:54 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Prepared for:

**Muscle Relief Cooling Cream**


**ASPEN GREEN**

Batch ID or Lot Number: <b>220815B</b>	Test: <b>Pesticides</b>	Reported: <b>8/22/22</b>	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Concentrate	Test ID: t000218458	Started: 8/19/22	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 08/17/2022 @ 10:30 AM	Sampler ID: N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	45	ND	Fenoxycarb	49	ND	Paclobutrazol	58	ND
Acetamiprid	40	ND	Fipronil	75	ND	Permethrin	311	ND
Abamectin	211	ND	Flonicamid	55	ND	Phosmet	49	ND
Azoxystrobin	44	ND	Fludioxonil	331	ND	Prophos	310	ND
Bifenazate	46	ND	Hexythiazox	46	ND	Propoxur	40	ND
Boscalid	41	ND	Imazalil	273	ND	Pyridaben	263	ND
Carbaryl	46	ND	Imidacloprid	45	ND	Spinosad A	35	ND
Carbofuran	43	ND	Kresoxim-methyl	150	ND	Spinosad D	63	ND
Chlorantraniliprole	53	ND	Malathion	289	ND	Spiromesifen	289	ND
Chlorpyrifos	500	ND	Metalaxyl	48	ND	Spirotetramat	274	ND
Clofentezine	281	ND	Methiocarb	38	ND	Spiroxamine 1	15	ND
Diazinon	282	ND	Methomyl	44	ND	Spiroxamine 2	19	ND
Dichlorvos	293	ND	MGK 264 1	164	ND	Tebuconazole	326	ND
Dimethoate	40	ND	MGK 264 2	127	ND	Thiacloprid	38	ND
E-Fenpyroximate	307	ND	Myclobutanil	47	ND	Thiamethoxam	45	ND
Etofenprox	38	ND	Naled	44	ND	Trifloxystrobin	42	ND
Etoxazole	243	ND	Oxamyl	1500	ND			

  
Daniel Weidensaul  
8/22/2022  
12:09:00 PM

  
Sam Smith  
8/22/2022  
12:17:00 PM

PREPARED BY / DATE

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**Definitions**

LOQ = Limit of Quantification  
ppb = Parts per Billion

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Certificate #4329.02


Prepared for:

**Muscle Relief Cooling Cream****ASPEN GREEN**


Batch ID or Lot Number: <b>220815B</b>	Test: <b>Metals</b>	Reported: <b>8/23/22</b>	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Unit Co	Test ID: T000218460	Started: 8/22/22	USDA License: N/A
Status: Active	Method: TM19 (ICP-MS): Heavy Metals	Received: 08/17/2022 @ 10:30 AM	Sampler ID: N/A

## HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.046 - 4.56	ND	
Cadmium	0.044 - 4.44	ND	
Mercury	0.045 - 4.49	ND	
Lead	0.044 - 4.39	ND	

 Daniel Weidensaul  
23-Aug-22  
6:50 PM

PREPARED BY / DATE

 Courtney Richards  
23-Aug-22  
8:09 PM

APPROVED BY / DATE

**Definitions**

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.



Certificate #4329.02

Prepared for:


**Muscle Relief Cooling Cream**

**ASPEN GREEN**


Batch ID or Lot Number: <b>220815B</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>8/22/22</b>	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Finished Product	Test ID: T000218459	Started: 8/17/22	USDA License: N/A
Status: Active	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	Received: 08/17/2022 @ 10:30 AM	Sampler ID: N/A

**MICROBIAL CONTAMINANTS DETERMINATION**

Contaminant	Method	LOD	QUANTITATION RANGE	Result	Notes
<b>Total Aerobic Count*</b>	TM-26, Culture Plating	10 <sup>2</sup> CFU/g	2.0x10 <sup>3</sup> - 3.0x10 <sup>5</sup> CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
<b>Total Coliforms*</b>	TM-27, Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>Total Yeast and Mold*</b>	TM-24, Culture Plating	10 <sup>1</sup> CFU/g	2.0x10 <sup>2</sup> - 3.0x10 <sup>4</sup> CFU/g	None Detected	
<b>STEC</b>	TM-25, PCR	10 <sup>0</sup> CFU/25 g	N/A	Absent	
<b>Salmonella</b>	TM-25, PCR	10 <sup>0</sup> CFU/25 g	N/A	Absent	

 Brett Hudson  
8/22/2022  
4:37:00 PM

PREPARED BY / DATE

 Eden Thompson-Wright  
8/22/2022  
5:25:00 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:  
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

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Prepared for:


**Muscle Relief Cooling Cream**

**ASPEN GREEN**


Batch ID or Lot Number: <b>220815B</b>	Test: <b>Residual Solvents</b>	Reported: <b>8/18/22</b>	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: N/A	Test ID: T000218461	Started: 8/17/22	USDA License: N/A
Status: Active	Methods: TM04 (GC-MS): Residual Solvents	Received: 08/17/2022 @ 10:30 AM	Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	94 - 1890	*ND	
Butanes (Isobutane, n-Butane)	196 - 3914	*ND	
Methanol	66 - 1324	*ND	
Pentane	103 - 2062	*ND	
Ethanol	100 - 1999	*ND	
Acetone	109 - 2173	*ND	
Isopropyl Alcohol	112 - 2235	*ND	
Hexane	7 - 131	*ND	
Ethyl Acetate	109 - 2184	*ND	
Benzene	0.2 - 4.3	*ND	
Heptanes	109 - 2174	*ND	
Toluene	19 - 388	*ND	
Xylenes (m,p,o-Xylenes)	144 - 2885	*ND	

 Sam Smith  
18-Aug-22  
6:37 PM

PREPARED BY / DATE

 Daniel Weidensaul  
18-Aug-22  
6:51 PM

APPROVED BY / DATE

**Definitions**

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

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Prepared for:

**Muscle Relief Cooling Cream**

**ASPEN GREEN**

Batch ID or Lot Number: <b>220815B</b>	Test: <b>Mycotoxins</b>	Reported: <b>8/22/22</b>	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
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Matrix: Concentrate	Test ID: T000218462	Started: 8/19/22	USDA License: N/A
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Status: Active	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 08/17/2022 @ 10:30 AM	Sampler ID: N/A
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**MYCOTOXIN DETERMINATION**

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.5 - 133.9	ND	N/A
Aflatoxin B1	1.4 - 34.4	ND	
Aflatoxin B2	1.2 - 34.3	ND	
Aflatoxin G1	1.1 - 34.8	ND	
Aflatoxin G2	1.1 - 34.9	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	



Sam Smith  
22-Aug-22  
2:59 PM

PREPARED BY / DATE



Jacob Miller  
22-Aug-22  
3:00 PM

APPROVED BY / DATE

**Definitions**

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

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