


Prepared for:


**Muscle Relief Cooling Cream1, 1000mg**
**ASPEN GREEN**

Batch ID or Lot Number: <b>220323A</b>	Test: <b>Potency</b>	Reported: <b>3/29/22</b>	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Unit	Test ID: T000199843	Started: 3/28/22	USDA License: N/A
Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis	Received: 03/25/2022 @ 01:40 PM	Sampler ID: N/A

## CANNABINOID PROFILE

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	10.595	23.239	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9THC)	11.959	26.229	39.341	0.76	# of Servings = 1 Sample Weight=52g
Cannabidiolic acid (CBDA)	11.782	28.859	ND	ND	
Cannabidiol (CBD)	11.487	28.137	1262.367	24.28	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	13.168	28.881	ND	ND	
Cannabinolic Acid (CBNA)	7.541	16.539	ND	ND	
Cannabinol (CBN)	3.449	7.565	ND	ND	
Cannabigerolic acid (CBGA)	11.053	24.242	ND	ND	
Cannabigerol (CBG)	2.644	5.799	20.939	0.40	
Tetrahydrocannabivarinic Acid (THCVA)	9.346	20.498	ND	ND	
Tetrahydrocannabivarin (THCV)	2.405	5.275	ND	ND	
Cannabidivarinic Acid (CBDVA)	4.915	12.039	ND	ND	
Cannabidivarin (CBDV)	2.717	6.655	4.813*	0.09*	
Cannabichromenic Acid (CBCA)	4.259	9.342	ND	ND	
Cannabichromene (CBC)	4.657	10.214	48.743	0.94	
<b>Total Cannabinoids</b>			<b>1376.203</b>	<b>26.47</b>	
Total Potential THC**			39.341	0.76	
Total Potential CBD**			1262.367	24.28	


 Jacob Miller  
 29-Mar-22  
 4:20 PM


 Ryan Weems  
 29-Mar-22  
 4:27 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.

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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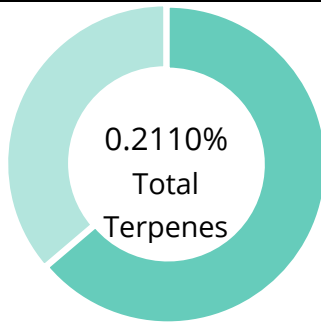


Certificate #4329.02

## Muscle Relief Cooling Cream1, 1000mg

Batch ID:	220323A	Test ID:	T000199844
Type:	Topical	Submitted:	03/25/2022 @ 01:40 PM
Test:	Terpenes	Started:	3/31/2022
Method:	TM22 (GC-MS)	Reported:	4/1/2022

## TERPENE PROFILE



## PREDOMINANT TERPENES

alpha-Pinene	0.0000
(-)-beta-Pinene	0.0000
beta-Myrcene	0.0000
delta-3-Carene	0.0000
alpha-Terpinene	0.0486
d-Limonene	0.0000
Linalool	0.0000
beta-Caryophyllene	0.0276
alpha-Humulene	0.0000
(-)-alpha-Bisabolol	0.0000

Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0000	0.000
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.0276	0.276
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0000	0.000
Eucalyptol	0.0154	0.154
Geraniol	0.0000	0.000
alpha-Humulene	0.0000	0.000
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0000	0.000
Linalool	0.0000	0.000
beta-Myrcene	0.0000	0.000
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	0.0000	0.000
(-)-beta-Pinene	0.0000	0.000
alpha-Terpinene	0.0486	0.486
gamma-Terpinene	0.1029	1.029
Terpinolene	0.0165	0.165
	<b>0.2110</b>	<b>2.110</b>

## NOTES:

N/A

## FINAL APPROVAL

Daniel Weidensaul  
1-Apr-2022  
12:26 PMJacob Miller  
1-Apr-2022  
12:29 PM

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APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC. 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


Prepared for:

**Muscle Relief Cooling Cream1, 1000mg**
**ASPEN GREEN**

Batch ID or Lot Number: <b>220323A</b>	Test: <b>Pesticides</b>	Reported: <b>3/30/22</b>	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Concentrate	Test ID: t000199845	Started: 3/29/22	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 03/25/2022 @ 01:40 PM	Sampler ID: N/A

## PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	37	ND	Fenoxycarb	41	ND	Paclobutrazol	48	ND
Acetamiprid	38	ND	Fipronil	11	ND	Permethrin	325	ND
Avermectin	333	ND	Flonicamid	57	ND	Phosmet	39	ND
Azoxystrobin	25	ND	Fludioxonil	308	ND	Prophos	290	ND
Bifenazate	34	ND	Hexythiazox	31	ND	Propoxur	41	ND
Boscalid	22	ND	Imazalil	284	ND	Pyridaben	321	ND
Carbaryl	36	ND	Imidacloprid	39	ND	Spinosad A	31	ND
Carbofuran	36	ND	Kresoxim-methyl	150	ND	Spinosad D	50	ND
Chlorantraniliprole	12	ND	Malathion	290	ND	Spiromesifen	315	ND
Chlorpyrifos	500	ND	Metalaxyl	39	ND	Spirotetramat	289	ND
Clofentezine	270	ND	Methiocarb	33	ND	Spiroxamine 1	14	ND
Diazinon	286	ND	Methomyl	39	ND	Spiroxamine 2	16	ND
Dichlorvos	290	ND	MGK 264 1	191	ND	Tebuconazole	272	ND
Dimethoate	34	ND	MGK 264 2	127	ND	Thiacloprid	36	ND
E-Fenpyroximate	329	ND	Myclobutanil	46	ND	Thiamethoxam	43	ND
Etofenprox	34	ND	Naled	47	ND	Trifloxystrobin	34	ND
Etoxazole	330	ND	Oxamyl	1500	ND			


 Sam Smith  
 3/30/2022  
 12:00:00 PM


 Daniel Weidensaul  
 3/30/2022  
 12:03:00 PM

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### Definitions

LOQ = Limit of Quantification  
 ppb = Parts per Billion

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Prepared for:

**Muscle Relief Cooling Cream1, 1000mg****ASPEN GREEN**

Batch ID or Lot Number: <b>220323A</b>	Test: <b>Metals</b>	Reported: <b>3/30/22</b>	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Unit Co	Test ID: T000199847	Started: 3/29/22	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals	Received: 03/25/2022 @ 01:40 PM	Sampler ID: N/A


## HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.042 - 4.19	ND	
Cadmium	0.042 - 4.17	ND	
Mercury	0.041 - 4.14	ND	
Lead	0.042 - 4.16	ND	



Ryan Weems  
30-Mar-22  
12:18 PM

PREPARED BY / DATE



Daniel Weidensaul  
30-Mar-22  
12:21 PM

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**Definitions**

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

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Prepared for:

**Muscle Relief Cooling Cream1, 1000mg**
**ASPEN GREEN**


Batch ID or Lot Number: <b>220323A</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>3/31/22</b>	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Finished Product	Test ID: T000199846	Started: 3/28/22	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	Received: 03/25/2022 @ 01:40 PM	Sampler ID: N/A

## MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
<b>Total Aerobic Count*</b>	TM-26, Culture Plating	10 <sup>2</sup> CFU/g	10 <sup>3</sup> CFU/g	1.5x10 <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	10 <sup>2</sup> CFU/g	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	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>STEC</b>	TM-25, PCR	10 <sup>0</sup> CFU/25 g	NA	NA	Absent	
<b>Salmonella</b>	TM-25, PCR	10 <sup>0</sup> CFU/25 g	NA	NA	Absent	

  
 Jackson Osaghae-Nosa  
 3/31/2022  
 9:59:00 AM

PREPARED BY / DATE

  
 Eden Thompson-Wright  
 3/31/2022  
 2:22:00 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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**ASPEN GREEN**


Batch ID or Lot Number: <b>220323A</b>	Test: <b>Residual Solvents</b>	Reported: <b>3/30/22</b>	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: N/A	Test ID: T000199848	Started: 3/30/22	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solvents	Received: 03/25/2022 @ 01:40 PM	Sampler ID: N/A

**RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	68 - 1356	*ND	
Butanes (Isobutane, n-Butane)	139 - 2775	*ND	
Methanol	49 - 988	*ND	
Pentane	75 - 1500	*ND	
Ethanol	79 - 1584	*ND	
Acetone	81 - 1624	*ND	
Isopropyl Alcohol	84 - 1680	*ND	
Hexane	5 - 102	*ND	
Ethyl Acetate	84 - 1671	*ND	
Benzene	0.2 - 3.4	*ND	
Heptanes	82 - 1644	*ND	
Toluene	15 - 305	*ND	
Xylenes (m,p,o-Xylenes)	110 - 2202	*ND	


 Hannah Wright  
 30-Mar-22  
 5:03 PM

PREPARED BY / DATE


 Daniel Weidensaul  
 30-Mar-22  
 5:05 PM

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**Definitions**

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**Muscle Relief Cooling Cream1, 1000mg****ASPEN GREEN**

Batch ID or Lot Number: <b>220323A</b>	Test: <b>Mycotoxins</b>	Reported: <b>3/31/22</b>	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
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Matrix: Concentrate	Test ID: T000199849	Started: 3/30/22	USDA License: N/A
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Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 03/25/2022 @ 01:40 PM	Sampler ID: N/A
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## MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.7 - 133.6	ND	N/A
Aflatoxin B1	1 - 33.7	ND	
Aflatoxin B2	1.1 - 34.2	ND	
Aflatoxin G1	1.2 - 32.8	ND	
Aflatoxin G2	1.2 - 32.4	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Sam Smith  
31-Mar-22  
10:15 AMRyan Weems  
31-Mar-22  
10:17 AM

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## Definitions

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