



Prepared for: **ASPEN GREEN**
Muscle Relief Cooling Cream

Batch ID or Lot Number: 210929B	Test: Potency	Reported: 10/6/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Unit	Test ID: T000167063	Started: 10/5/21	USDA License: N/A
Status: N/A	Method: TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis (Colorado Panel)	Received: 10/04/2021 @ 12:47 PM	Sampler ID: N/A

CANNABINOID PROFILE

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	10.206	26.485	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9THC)	11.519	29.892	37.931	0.73	# of Servings = 1 Sample Weight=52g
Cannabidiolic acid (CBDA)	8.270	29.274	8.338*	0.16*	
Cannabidiol (CBD)	8.063	28.542	1139.881	21.92	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	12.684	32.914	ND	ND	
Cannabinolic Acid (CBNA)	7.264	18.849	ND	ND	
Cannabinol (CBN)	3.323	8.622	ND	ND	
Cannabigerolic acid (CBGA)	10.647	27.628	ND	ND	
Cannabigerol (CBG)	2.547	6.609	17.697	0.34	
Tetrahydrocannabivarinic Acid (THCVA)	9.002	23.360	ND	ND	
Tetrahydrocannabivarin (THCV)	2.317	6.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	3.450	12.212	ND	ND	
Cannabidivarin (CBDV)	1.907	6.750	3.724*	0.07*	
Cannabichromenic Acid (CBCA)	4.103	10.647	ND	ND	
Cannabichromene (CBC)	4.486	11.640	46.554	0.90	
Total Cannabinoids			1254.125	24.12	
Total Potential THC**			37.931	0.73	
Total Potential CBD**			1147.193	22.06	


 Hannah Wright
 06-Oct-2021
 01:50 PM


 Ryan Weems
 6-Oct-21
 1:59 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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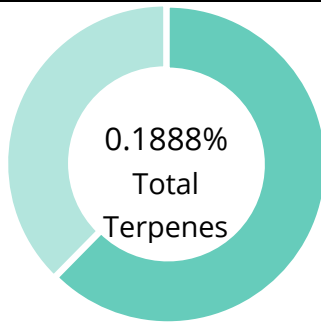


Certificate #4329.02

Muscle Relief Cooling Cream

Batch ID:	210929B	Test ID:	T000175146
Type:	Topical	Submitted:	11/08/2021 @ 11:19 AM
Test:	Terpenes	Started:	11/11/2021
Method:	TM22 (GC-MS)	Reported:	11/12/2021

TERPENE PROFILE



PREDOMINANT TERPENES


alpha-Pinene	0.0000
(-)-beta-Pinene	0.0000
beta-Myrcene	0.0000
delta-3-Carene	0.0000
alpha-Terpinene	0.0431
d-Limonene	0.0000
Linalool	0.0000
beta-Caryophyllene	0.0260
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	0.0260	0.260
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0000	0.000
Eucalyptol	0.0138	0.138
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	0.0431	0.431
gamma-Terpinene	0.0903	0.903
Terpinolene	0.0156	0.156
	0.1888	1.888

NOTES:

N/A

FINAL APPROVAL



Jacob Miller
12-Nov-2021
3:08 PM



Daniel Weidensaul
12-Nov-2021
3:13 PM

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Prepared for:

Muscle Relief Cooling Cream**ASPEN GREEN**

Batch ID or Lot Number: 210929B	Test: Pesticides	Reported: 11/5/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Concentrate	Test ID: T000170490	Started: 11/4/21	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 10/29/2021 @ 09:07 AM	Sampler ID: N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	46	ND	Fenoxycarb	44	ND	Paclobutrazol	44	ND
Acetamiprid	40	ND	Fipronil	65	ND	Permethrin	296	ND
Avermectin	324	ND	Flonicamid	52	ND	Phosmet	43	ND
Azoxystrobin	44	ND	Fludioxonil	284	ND	Prophos	277	ND
Bifenazate	42	ND	Hexythiazox	40	ND	Propoxur	43	ND
Boscalid	41	ND	Imazalil	276	ND	Pyridaben	289	ND
Carbaryl	40	ND	Imidacloprid	38	ND	Spinosad A	35	ND
Carbofuran	43	ND	Kresoxim-methyl	150	ND	Spinosad D	54	ND
Chlorantraniliprole	51	ND	Malathion	283	ND	Spiromesifen	282	ND
Chlorpyrifos	500	ND	Metalaxyl	45	ND	Spirotetramat	261	ND
Clofentezine	292	ND	Methiocarb	43	ND	Spiroxamine 1	20	ND
Diazinon	275	ND	Methomyl	41	ND	Spiroxamine 2	24	ND
Dichlorvos	284	ND	MGK 264 1	172	ND	Tebuconazole	293	ND
Dimethoate	41	ND	MGK 264 2	123	ND	Thiacloprid	43	ND
E-Fenpyroximate	267	ND	Myclobutanil	39	ND	Thiamethoxam	42	ND
Etofenprox	42	ND	Naled	49	ND	Trifloxystrobin	44	ND
Etoxazole	300	ND	Oxamyl	1500	ND			

 Sam Smith
11/5/2021
11:03:00 AM

 Karen Winternheimer
11/5/2021
11:06:00 AM

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Definitions

LOQ = Limit of Quantification
ppb = Parts per Billion

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Prepared for:

Muscle Relief Cooling Cream**ASPEN GREEN**

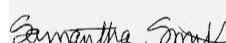
Batch ID or Lot Number: 210929B	Test: Metals	Reported: 11/3/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Unit Co	Test ID: T000170491	Started: 11/2/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 10/29/2021 @ 09:07 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.043 - 4.32	ND	
Cadmium	0.044 - 4.40	ND	
Mercury	0.042 - 4.24	ND	
Lead	0.043 - 4.32	ND	

 Daniel Weidensaul
3-Nov-21
1:24 PM

PREPARED BY / DATE

 Sam Smith
3-Nov-21
1:26 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 Cream
ASPEN GREEN

Batch ID or Lot Number: 210929B	Test: Microbial Contaminants	Reported: 10/8/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Finished Product	Test ID: T000167064	Started: 10/5/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 10/04/2021 @ 12:47 PM	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 ² CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10 ² 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	



 Carly Bader
 10/8/2021
 4:41:00 PM



 Jackson Osaghae-Nosa
 10/8/2021
 4:51:00 PM

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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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Prepared for:

Muscle Relief Cooling Cream
ASPEN GREEN

Batch ID or Lot Number: 210929B	Test: Residual Solvents	Reported: 11/1/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: N/A	Test ID: t000170492	Started: 11/1/21	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel)	Received: 10/29/2021 @ 09:07 AM	Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	61 - 1217	*ND	
Butanes (Isobutane, n-Butane)	125 - 2499	*ND	
Methanol	43 - 868	*ND	
Pentane	65 - 1306	*ND	
Ethanol	68 - 1356	*ND	
Acetone	72 - 1444	*ND	
Isopropyl Alcohol	81 - 1613	*ND	
Hexane	4 - 88	*ND	
Ethyl Acetate	74 - 1474	*ND	
Benzene	0.2 - 3.1	*ND	
Heptanes	70 - 1398	*ND	
Toluene	14 - 271	*ND	
Xylenes (m,p,o-Xylenes)	99 - 1983	*ND	


 Hannah Wright
 1-Nov-21
 5:12 PM

PREPARED BY / DATE


 Ryan Weems
 1-Nov-21
 5:16 PM

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Prepared for:

Muscle Relief Cooling Cream**ASPEN GREEN**

Batch ID or Lot Number: 210929B	Test: Mycotoxins	Reported: 11/3/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Concentrate	Test ID: T000170493	Started: 11/2/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 10/29/2021 @ 09:07 AM	Sampler ID: N/A


MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.3 - 123	ND	N/A
Aflatoxin B1	1.1 - 31.5	ND	
Aflatoxin B2	0.9 - 32.4	ND	
Aflatoxin G1	1.2 - 32.1	ND	
Aflatoxin G2	1.1 - 29.9	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	



Ryan Weems
3-Nov-21
1:10 PM

PREPARED BY / DATE



Sam Smith
3-Nov-21
1:13 PM

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