



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

Batch ID or Lot Number: 210928B	Test: Potency	Reported: 10/6/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Unit	Test ID: T000167061	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)	9.363	24.298	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9THC)	10.568	27.424	38.320	0.74	# of Servings = 1 Sample Weight=52g
Cannabidiolic acid (CBDA)	7.587	26.857	8.728*	0.17*	
Cannabidiol (CBD)	7.398	26.185	1128.429	21.70	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	11.637	30.196	ND	ND	
Cannabinolic Acid (CBNA)	6.664	17.293	ND	ND	
Cannabinol (CBN)	3.048	7.910	ND	ND	
Cannabigerolic acid (CBGA)	9.767	25.346	ND	ND	
Cannabigerol (CBG)	2.337	6.063	18.188	0.35	
Tetrahydrocannabivarinic Acid (THCVA)	8.259	21.431	ND	ND	
Tetrahydrocannabivarin (THCV)	2.125	5.515	ND	ND	
Cannabidivarinic Acid (CBDVA)	3.165	11.203	ND	ND	
Cannabidivarin (CBDV)	1.750	6.193	3.8*	0.07*	
Cannabichromenic Acid (CBCA)	3.764	9.768	ND	ND	
Cannabichromene (CBC)	4.115	10.679	46.555	0.90	
Total Cannabinoids			1244.020	23.92	
Total Potential THC**			38.320	0.74	
Total Potential CBD**			1136.083	21.85	


 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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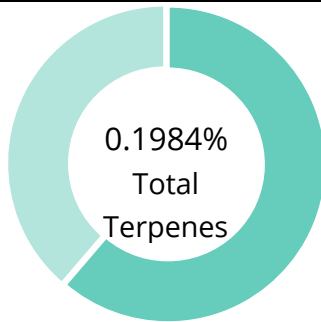


Certificate #4329.02

Muscle Relief Cooling Cream

Batch ID:	210928B	Test ID:	T000175145
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	0.0443
d-Limonene	0.0000
Linalool	0.0000
beta-Caryophyllene	0.0280
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	0.0280	0.280
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0000	0.000
Eucalyptol	0.0162	0.162
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	0.0443	0.443
gamma-Terpinene	0.0944	0.944
Terpinolene	0.0155	0.155
	0.1984	1.984

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: 210928B	Test: Pesticides	Reported: 11/5/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Concentrate	Test ID: T000170486	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**

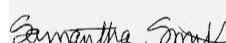
Batch ID or Lot Number: 210928B	Test: Metals	Reported: 11/3/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Unit Co	Test ID: T000170487	Started: 11/2/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 10/29/2021 @ 09:07 AM	Sampler ID: N/A

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: 210928B	Test: Microbial Contaminants	Reported: 10/8/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Finished Product	Test ID: T000167062	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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Muscle Relief Cooling Cream

ASPEN GREEN

Batch ID or Lot Number: 210928B	Test: Residual Solvents	Reported: 11/1/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: N/A	Test ID: t000170488	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	58 - 1154	*ND	
Butanes (Isobutane, n-Butane)	118 - 2369	*ND	
Methanol	41 - 823	*ND	
Pentane	62 - 1238	*ND	
Ethanol	64 - 1285	*ND	
Acetone	68 - 1368	*ND	
Isopropyl Alcohol	76 - 1529	*ND	
Hexane	4 - 83	*ND	
Ethyl Acetate	70 - 1397	*ND	
Benzene	0.1 - 2.9	*ND	
Heptanes	66 - 1325	*ND	
Toluene	13 - 257	*ND	
Xylenes (m,p,o-Xylenes)	94 - 1879	*ND	


Hannah Wright
1-Nov-21
5:12 PM

PREPARED BY / DATE


Ryan Weems
1-Nov-21
5:16 PM

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Muscle Relief Cooling Cream**ASPEN GREEN**

Batch ID or Lot Number: 210928B	Test: Mycotoxins	Reported: 11/3/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Concentrate	Test ID: T000170489	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	4.2 - 120.3	ND	N/A
Aflatoxin B1	1.1 - 30.8	ND	
Aflatoxin B2	0.9 - 31.7	ND	
Aflatoxin G1	1.2 - 31.4	ND	
Aflatoxin G2	1.1 - 29.3	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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