

Prepared for:

2000mg Full Spectrum Hemp Extract/Active Cannabinoids/CBD Oil Original

ASPEN GREEN

Batch ID or Lot Number: AG-2110-20	Test: Potency	Reported: 11/4/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
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Matrix: Unit	Test ID: T000172647	Started: 10/29/21	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 10/29/2021 @ 12:35 PM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	4.283	14.248	ND	ND	# of Servings = 1 Sample Weight=28.4g
Delta 9-Tetrahydrocannabinol (Delta 9THC)	4.834	16.081	66.272	2.33	
Cannabidiolic acid (CBDA)	5.391	17.551	16.301*	0.57*	
Cannabidiol (CBD)	5.256	17.112	2086.577	73.47	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	5.323	17.707	ND	ND	
Cannabinolic Acid (CBNA)	3.048	10.141	ND	ND	
Cannabinol (CBN)	1.394	4.638	2.188*	0.08*	
Cannabigerolic acid (CBGA)	4.468	14.863	ND	ND	
Cannabigerol (CBG)	1.069	3.555	30.920	1.09	
Tetrahydrocannabivarinic Acid (THCVA)	3.778	12.567	ND	ND	
Tetrahydrocannabivarin (THCV)	0.972	3.234	ND	ND	
Cannabidivarinic Acid (CBDVA)	2.249	7.322	ND	ND	
Cannabidivarin (CBDV)	1.243	4.047	7.396	0.26	
Cannabichromenic Acid (CBCA)	1.722	5.728	ND	ND	
Cannabichromene (CBC)	1.882	6.262	80.820	2.85	
Total Cannabinoids			2290.474	80.65	
Total Potential THC**			66.272	2.33	
Total Potential CBD**			2100.873	73.97	

 Karen Winternheimer
04-Nov-2021
01:21 PM

 Ryan Weems
4-Nov-21
1:51 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

2000mg Full Spectrum Hemp Extract/Active Cannabinoids/CBD Original

Batch ID:	AG-2110-20	Test ID:	T000175156
Type:	Concentrate	Submitted:	11/08/2021 @ 10:45 AM
Test:	Terpenes	Started:	11/11/2021
Method:	TM22 (GC-MS)	Reported:	11/12/2021

TERPENE PROFILE


Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0615	0.615
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.1096	1.096
(-)-Caryophyllene Oxide	0.0204	0.204
p-Cymene	0.0000	0.000
Eucalyptol	0.0000	0.000
Geraniol	0.0000	0.000
alpha-Humulene	0.0393	0.393
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0000	0.000
Linalool	0.0077	0.077
beta-Myrcene	0.0000	0.000
cis-Nerolidol	0.0000	0.000
trans-Nerolidol	0.0079	0.079
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	0.0000	0.000
gamma-Terpinene	0.0000	0.000
Terpinolene	0.0000	0.000
	0.2464	2.464

PREDOMINANT TERPENES

alpha-Pinene	0.0000
(-)-beta-Pinene	0.0000
beta-Myrcene	0.0000
delta-3-Carene	0.0000
alpha-Terpinene	0.0000
d-Limonene	0.0000
Linalool	0.0077
beta-Caryophyllene	0.1096
alpha-Humulene	0.0393
(-)-alpha-Bisabolol	0.0615

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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APPROVED BY / DATE

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A2LA Certificate Number 4329.02



Certificate #4329.02

Prepared for:

**2000mg Full Spectrum Hemp Extract/Active
Cannabinoids/CBD Oil Original**
ASPEN GREEN

Batch ID or Lot Number: AG-2110-20	Test: Pesticides	Reported: 11/5/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Concentrate	Test ID: T000172648	Started: 11/4/21	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 10/29/2021 @ 12:35 PM	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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Certificate #4329.02

2000mg Full Spectrum Hemp Extract/Active Cannabinoids/CBD Oil Original

Prepared for:
ASPEN GREEN

Batch ID or Lot Number: AG-2110-20	Test: Metals	Reported: 11/3/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Unit Co	Test ID: T000172650	Started: 11/2/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS); Heavy Metals (Colorado Panel)	Received: 10/29/2021 @ 12:35 PM	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

 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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Certificate #4329.02

**2000mg Full Spectrum Hemp Extract/Active
Cannabinoids/CBD Oil Original**

Prepared for:
ASPEN GREEN

Batch ID or Lot Number: AG-2110-20	Test: Microbial Contaminants	Reported: 11/7/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Finished Product	Test ID: T000172649	Started: 11/1/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 10/29/2021 @ 12:35 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 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10 ¹ 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	


Brett Hudson
11/7/2021
9:04:00 AM

PREPARED BY / DATE


Courtney Richards
11/7/2021
10:44:00 AM

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:
10² = 100 CFU
10³ = 1,000 CFU
10⁴ = 10,000 CFU
10⁵ = 100,000 CFU

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ASPEN GREEN

2000mg Full Spectrum Hemp Extract/Active Cannabinoids/CBD Oil Original

Batch ID or Lot Number: **AG-2110-20** Test: **Residual Solvents** Reported: **11/3/21** Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620

Matrix: N/A Test ID: T000172651 Started: 11/2/21 USDA License: N/A

Status: N/A Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel) Received: 10/29/2021 @ 12:35 PM Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	83 - 1650	*ND	
Butanes (Isobutane, n-Butane)	163 - 3262	*ND	
Methanol	65 - 1300	*ND	
Pentane	93 - 1851	*ND	
Ethanol	97 - 1940	*ND	
Acetone	103 - 2067	*ND	
Isopropyl Alcohol	110 - 2202	*ND	
Hexane	5 - 110	*ND	
Ethyl Acetate	111 - 2229	*ND	
Benzene	0.2 - 4.4	*ND	
Heptanes	101 - 2022	*ND	
Toluene	19 - 370	*ND	
Xylenes (m,p,o-Xylenes)	137 - 2732	*ND	

 Hannah Wright
3-Nov-21
1:18 PM

 Ryan Weems
3-Nov-21
1:19 PM

PREPARED BY / DATE

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Definitions

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ASPEN GREEN

Batch ID or Lot Number: AG-2110-20	Test: Mycotoxins	Reported: 11/3/21	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Concentrate	Test ID: T000172652	Started: 11/2/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 10/29/2021 @ 12:35 PM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.4 - 126	ND	N/A
Aflatoxin B1	1.1 - 32.3	ND	
Aflatoxin B2	0.9 - 33.1	ND	
Aflatoxin G1	1.2 - 32.9	ND	
Aflatoxin G2	1.2 - 30.7	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

APPROVED BY / DATE

Definitions

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