

CERTIFICATE OF ANALYSIS

Prepared for:

ASPEN GREEN

26 AVONDALE LANE #216B
BEAVER CREEK, CO USA 81620


Calm Organic Pet Chews Bacon flavor

Batch ID or Lot Number: CB2301	Test: Potency	Reported: 01Mar2023	USDA License: N/A
Matrix: Unit	Test ID: T000232526	Started: 23Jan2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 20Jan2023	Status: Active

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.248	0.837	<LOQ	<LOQ	Amendment to T000232526 issued 25Jan2023 to update unit weight. # of Servings = 1 Sample Weight=4.132g
Cannabichromenic Acid (CBCA)	0.227	0.766	ND	ND	
Cannabidiol (CBD)	0.683	2.307	12.175	2.95	
Cannabidiolic Acid (CBDA)	0.701	2.367	ND	ND	
Cannabidivarin (CBDV)	0.162	0.546	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.292	0.987	ND	ND	
Cannabigerol (CBG)	0.141	0.475	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.589	1.987	ND	ND	
Cannabinol (CBN)	0.184	0.620	ND	ND	
Cannabinolic Acid (CBNA)	0.402	1.356	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.702	2.367	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.637	2.150	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.565	1.905	ND	ND	
Tetrahydrocannabivarin (THCV)	0.128	0.432	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.498	1.680	ND	ND	
Total Cannabinoids			12.175	2.95	
Total Potential THC			ND	ND	
Total Potential CBD			12.175	2.95	

Final Approval



Karen Winternheimer
01Mar2023
12:06:00 PM MST

PREPARED BY / DATE



Karen Winternheimer
01Mar2023
12:10:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/198d565a-c125-4b44-8923-5c4e37fcd425>

Definitions

% = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method).

Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDA *(0.877)).

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Cert #4329.02

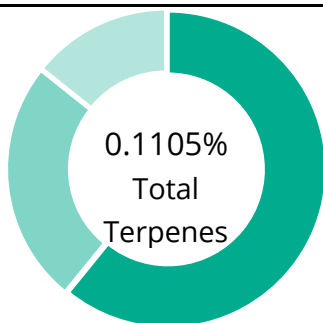
CDPHE Certified

198d565ac1254b4489235c4e37fcd425.2

Calm Organic Pet Chews Bacon flavor

Batch ID:	CB2301	Test ID:	T000232527
Type:	Unit	Submitted:	01/20/2023 @ 11:08 AM
Test:	Terpenes	Started:	1/25/2023
Method:	TM22 (GC-MS)	Reported:	1/31/2023

TERPENE PROFILE



PREDOMINANT TERPENES

alpha-Pinene	0.0115
(-)-beta-Pinene	0.0000
beta-Myrcene	0.0000
delta-3-Carene	0.0000
alpha-Terpinene	0.0000
d-Limonene	0.0047
Linalool	0.0000
beta-Caryophyllene	0.0027
alpha-Humulene	0.0000
(-)-alpha-Bisabolol	0.0000

Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0000	0.000
Camphene	0.0031	0.031
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.0027	0.027
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0000	0.000
Eucalyptol	0.0716	0.716
Geraniol	0.0000	0.000
alpha-Humulene	0.0000	0.000
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0047	0.047
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	0.0169	0.169
alpha-Pinene	0.0115	0.115
(-)-beta-Pinene	0.0000	0.000
alpha-Terpinene	0.0000	0.000
gamma-Terpinene	0.0000	0.000
Terpinolene	0.0000	0.000
Total	0.1105	1.105

NOTES:

N/A

FINAL APPROVAL

Sam Smith
Sam Smith
31-Jan-2023
3:22 PM

K Winterheimer
Karen Winterheimer
31-Jan-2023
3:28 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

Prepared for:

Calm Organic Pet Chews Bacon flavor

ASPEN GREEN

Batch ID or Lot Number: CB2301	Test: Pesticides	Reported: 1/27/23	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Concentrate	Test ID: T000232528	Started: 1/25/23	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 01/20/2023 @ 11:08 AM	Sampler ID: N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	38	ND	Fenoxycarb	44	ND	Paclobutrazol	39	ND
Acetamiprid	40	ND	Fipronil	54	ND	Permethrin	274	ND
Abamectin	309	ND	Flonicamid	45	ND	Phosmet	40	ND
Azoxystrobin	42	ND	Fludioxonil	312	ND	Prophos	291	ND
Bifenazate	43	ND	Hexythiazox	42	ND	Propoxur	43	ND
Boscalid	42	ND	Imazalil	289	ND	Pyridaben	282	ND
Carbaryl	42	ND	Imidacloprid	43	ND	Spinosad A	32	ND
Carbofuran	43	ND	Kresoxim-methyl	150	ND	Spinosad D	47	ND
Chlorantraniliprole	39	ND	Malathion	292	ND	Spiromesifen	281	ND
Chlorpyrifos	500	ND	Metalaxyl	42	ND	Spirotetramat	289	ND
Clofentezine	268	ND	Methiocarb	45	ND	Spiroxamine 1	17	ND
Diazinon	284	ND	Methomyl	40	ND	Spiroxamine 2	23	ND
Dichlorvos	300	ND	MGK 264 1	180	ND	Tebuconazole	278	ND
Dimethoate	39	ND	MGK 264 2	120	ND	Thiacloprid	40	ND
E-Fenpyroximate	271	ND	Myclobutanil	47	ND	Thiamethoxam	41	ND
Etofenprox	45	ND	Naled	42	ND	Trifloxystrobin	43	ND
Etoxazole	282	ND	Oxamyl	1500	ND			

K Winterheimer
Karen Winterheimer
1/27/2023
8:03:00 AM

PREPARED BY / DATE

Samantha Smith
Sam Smith
1/27/2023
8:06:00 AM

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification
ppb = Parts per Billion

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Certificate #4329.02


Prepared for:

Calm Organic Pet Chews Bacon flavor**ASPEN GREEN**


Batch ID or Lot Number: CB2301	Test: Metals	Reported: 1/24/23	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Unit Co	Test ID: T000232530	Started: 1/23/23	USDA License: N/A
Status: Active	Method: TM19 (ICP-MS): Heavy Metals	Received: 01/20/2023 @ 11:08 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.045 - 4.47	ND	
Cadmium	0.045 - 4.50	ND	
Mercury	0.045 - 4.49	ND	
Lead	0.052 - 5.24	ND	

 Sam Smith
24-Jan-23
11:06 AM

PREPARED BY / DATE

 Karen Winterheimer
24-Jan-23
11:13 AM

APPROVED BY / DATE

Definitions

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

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Certificate #4329.02

Prepared for:

Calm Organic Pet Chews Bacon flavor

ASPEN GREEN


Batch ID or Lot Number: CB2301	Test: Residual Solvents	Reported: 1/22/23	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: N/A	Test ID: T000232531	Started: 1/22/23	USDA License: N/A
Status: Active	Methods: TM04 (GC-MS): Residual Solvents	Received: 01/20/2023 @ 11:08 AM	Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	105 - 2107	*ND	
Butanes	215 - 4290	*ND	
(Isobutane, n-Butane)			
Methanol	62 - 1244	*ND	
Pentane	108 - 2157	*ND	
Ethanol	99 - 1983	*ND	
Acetone	104 - 2088	*ND	
Isopropyl Alcohol	101 - 2012	*ND	
Hexane	6 - 129	*ND	
Ethyl Acetate	105 - 2093	*ND	
Benzene	0.2 - 4.5	*ND	
Heptanes	107 - 2133	*ND	
Toluene	18 - 361	*ND	
Xylenes	125 - 2505	*ND	
(m,p,o-Xylenes)			

 Karen Winternheimer
22-Jan-23
1:38 PM

PREPARED BY / DATE

 Sam Smith
22-Jan-23
1:39 PM

APPROVED BY / DATE

Definitions

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

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Certificate #4329.02

Prepared for:


Calm Organic Pet Chews Bacon flavor

ASPEN GREEN


Batch ID or Lot Number: CB2301	Test: Microbial Contaminants	Reported: 1/23/23	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
Matrix: Finished Product	Test ID: T000232529	Started: 1/20/23	USDA License: N/A
Status: Active	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	Received: 01/20/2023 @ 11:08 AM	Sampler ID: N/A

MICROBIAL CONTAMINANTS DETERMINATION

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


Brett Hudson
1/23/2023
4:01:00 PM

PREPARED BY / DATE


Eden Thompson-Wright
1/23/2023
4:17:00 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:
10² = 100 CFU
10³ = 1,000 CFU
10⁴ = 10,000 CFU
10⁵ = 100,000 CFU

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CDPHE Certified



Certificate #4329.02

Prepared for:

Calm Organic Pet Chews Bacon flavor

ASPEN GREEN

Batch ID or Lot Number: CB2301	Test: Mycotoxins	Reported: 1/25/23	Location: 26 AVONDALE LANE #216B BEAVER CREEK, CO 81620
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Matrix: Concentrate	Test ID: T000232532	Started: 1/24/23	USDA License: N/A
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Status: Active	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 01/20/2023 @ 11:08 AM	Sampler ID: N/A
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MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4 - 134	ND	N/A
Aflatoxin B1	1 - 34.3	ND	
Aflatoxin B2	1 - 34	ND	
Aflatoxin G1	1 - 34.3	ND	
Aflatoxin G2	0.9 - 34.7	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	



Sam Smith
25-Jan-23
11:22 AM

PREPARED BY / DATE



Karen Winterheimer
25-Jan-23
11:26 AM

APPROVED BY / DATE

Definitions

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

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