

CERTIFICATE OF ANALYSIS

Prepared for:
ASPEN GREEN

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

Calm FS CBD Gummies Lemon

Batch ID or Lot Number: 230410H	Test: Potency	Reported: 24Apr2023	USDA License: N/A
Matrix: Unit	Test ID: T000239289	Started: 29Mar2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 27Mar2023	Status: Active

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.350	1.154	3.748	0.75	Amendment to T000239289 issued 30Mar2023 to update report format. # of Servings = 1 Sample Weight=5g
Cannabichromenic Acid (CBCA)	0.320	1.055	ND	ND	
Cannabidiol (CBD)	1.078	3.033	28.913	5.78	
Cannabidiolic Acid (CBDA)	1.106	3.111	ND	ND	
Cannabidivarin (CBDV)	0.255	0.717	10.284	2.06	
Cannabidivarinic Acid (CBDVA)	0.461	1.298	ND	ND	
Cannabigerol (CBG)	0.199	0.655	1.317	0.26	
Cannabigerolic Acid (CBGA)	0.830	2.738	ND	ND	
Cannabinol (CBN)	0.259	0.855	ND	ND	
Cannabinolic Acid (CBNA)	0.567	1.868	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.989	3.263	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.899	2.963	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.796	2.625	ND	ND	
Tetrahydrocannabivarin (THCV)	0.181	0.596	<LOQ	<LOQ	
Tetrahydrocannabivarinic Acid (THCVA)	0.702	2.316	ND	ND	
Total Cannabinoids			44.262	8.85	
Total Potential THC			<LOQ	<LOQ	
Total Potential CBD			28.913	5.78	

Final Approval


Samantha Smith
24Apr2023
02:43:00 PM MDT

PREPARED BY / DATE


Karen Winternheimer
24Apr2023
02:45:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/f6076213-a693-406b-9487-61f79b4edacd>

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

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Prepared for:
ASPEN GREEN

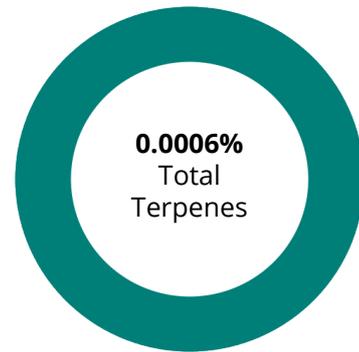
26 AVONDALE LANE #216B
BEAVER CREEK, CO USA 81620

Calm FS CBD Gummies Lemon

Batch ID or Lot Number: 230410H	Test: Terpenes	Reported: 02Apr2023	USDA License: NA
Matrix: Unit	Test ID: T000239290	Started: 31Mar2023	Sampler ID: NA
	Method(s): TM22 (GC-MS)	Received: 27Mar2023	Status: NA

Terpenes

Terpenes	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0000	0.0000
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0000	0.0000
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0000	0.0000
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.0006	0.006
beta-Myrcene	0.0000	0.0000
beta-Ocimene	0.0000	0.0000
Camphene	0.0000	0.0000
cis-Nerolidol	0.0000	0.0000
d-Limonene	0.0000	0.0000
delta-3-Carene	0.0000	0.0000
Eucalyptol	0.0000	0.0000
gamma-Terpinene	0.0000	0.0000
Geraniol	0.0000	0.0000
Linalool	0.0000	0.0000
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0000	0.0000
	0.0006	0.0060



PREDOMINANT TERPENES

(-)-alpha-Bisabolol	0.0000
(-)-beta-Pinene	0.0000
alpha-Humulene	0.0000
alpha-Pinene	0.0000
alpha-Terpinene	0.0000
beta-Caryophyllene	0.0006
beta-Myrcene	0.0000
d-Limonene	0.0000
delta-3-Carene	0.0000
Linalool	0.0000

Notes

Final Approval



PREPARED BY / DATE

Karen Winternheimer
02Apr2023
12:36:00 PM MDT



APPROVED BY / DATE

Sam Smith
02Apr2023
12:38:00 PM MDT



<https://results.botanacor.com/api/v1/coas/uuid/82267ab5-f0fe-4426-8ff5-451599f5119f>

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Prepared for:
ASPEN GREEN

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

Calm FS CBD Gummies Lemon

Batch ID or Lot Number: 230410H	Test: Pesticides	Reported: 30Mar2023	USDA License: NA
Matrix: Concentrate	Test ID: T000239291	Started: 29Mar2023	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 27Mar2023	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	374 - 2672	ND	Malathion	279 - 2740	ND
Acephate	18 - 2844	ND	Metalaxyl	44 - 2755	ND
Acetamiprid	40 - 2758	ND	Methiocarb	40 - 2669	ND
Azoxystrobin	45 - 2727	ND	Methomyl	42 - 2802	ND
Bifenazate	41 - 2784	ND	MGK 264 1	175 - 1559	ND
Boscalid	66 - 2638	ND	MGK 264 2	119 - 1122	ND
Carbaryl	43 - 2727	ND	Myclobutanil	47 - 2696	ND
Carbofuran	42 - 2705	ND	Naled	50 - 2695	ND
Chlorantraniliprole	42 - 2649	ND	Oxamyl	44 - 2792	ND
Chlorpyrifos	55 - 2672	ND	Paclobotrazol	49 - 2706	ND
Clofentezine	293 - 2709	ND	Permethrin	261 - 2620	ND
Diazinon	289 - 2767	ND	Phosmet	40 - 2745	ND
Dichlorvos	274 - 2725	ND	Prophos	296 - 2692	ND
Dimethoate	40 - 2753	ND	Propoxur	40 - 2711	ND
E-Fenpyroximate	287 - 2726	ND	Pyridaben	311 - 2711	ND
Etofenprox	48 - 2703	ND	Spinosad A	34 - 2208	ND
Etoxazole	306 - 2700	ND	Spinosad D	54 - 492	ND
Fenoxycarb	43 - 2757	ND	Spiromesifen	284 - 2702	ND
Fipronil	39 - 2784	ND	Spirotetramat	276 - 2790	ND
Flonicamid	42 - 2787	ND	Spiroxamine 1	19 - 1142	ND
Fludioxonil	333 - 2624	ND	Spiroxamine 2	24 - 1509	ND
Hexythiazox	45 - 2742	ND	Tebuconazole	274 - 2734	ND
Imazalil	289 - 2748	ND	Thiacloprid	43 - 2751	ND
Imidacloprid	40 - 2751	ND	Thiamethoxam	44 - 2778	ND
Kresoxim-methyl	43 - 2817	ND	Trifloxystrobin	40 - 2722	ND

Final Approval



Karen Winternheimer
30Mar2023
12:35:00 PM MDT

PREPARED BY / DATE



Sam Smith
30Mar2023
12:51:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/7b4baa4f-6b7e-4f28-afde-f21834791777>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range
ppb = Parts Per Billion

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CERTIFICATE OF ANALYSIS

Prepared for:

ASPEN GREEN

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

Calm FS CBD Gummies Lemon

Batch ID or Lot Number: 230410H	Test: Heavy Metals	Reported: 05Apr2023	USDA License: NA
Matrix: Unit Co	Test ID: T000239293	Started: 04Apr2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 27Mar2023	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.06	ND	
Cadmium	0.05 - 4.56	ND	
Mercury	0.04 - 4.27	ND	
Lead	0.05 - 4.52	ND	

Final Approval



Sam Smith
05Apr2023
03:03:00 PM MDT

PREPARED BY / DATE



Karen Winternheimer
05Apr2023
03:31:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/a6f05a2c-00a5-462e-8cfe-53d2213bf7e7>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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CERTIFICATE OF ANALYSIS

Prepared for:
ASPEN GREEN

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

Calm FS CBD Gummies Lemon

Batch ID or Lot Number: 230410H	Test: Microbial Contaminants	Reported: 31Mar2023	USDA License: N/A
Matrix: Finished Product	Test ID: T000239292	Started: 28Mar2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 27Mar2023	Status: Active

Microbial

Contaminants

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	<LLOQ	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Eden Thompson-Wright
31Mar2023
02:38:00 PM MDT

PREPARED BY / DATE



Brianne Maillot
31Mar2023
04:27:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/21cae46c-acf4-4924-9cea-7baf5f466373>

Definitions

* 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
CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

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CERTIFICATE OF ANALYSIS

Prepared for:
ASPEN GREEN

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

Calm FS CBD Gummies Lemon

Batch ID or Lot Number: 230410H	Test: Residual Solvents	Reported: 30Mar2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000239294	Started: 30Mar2023	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 27Mar2023	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	100 - 2002	ND	
Butanes (Isobutane, n-Butane)	205 - 4096	ND	
Methanol	60 - 1207	ND	
Pentane	100 - 2009	ND	
Ethanol	98 - 1951	ND	
Acetone	97 - 1948	ND	
Isopropyl Alcohol	100 - 1996	ND	
Hexane	6 - 117	ND	
Ethyl Acetate	98 - 1964	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	99 - 1979	ND	
Toluene	17 - 344	ND	
Xylenes (m,p,o-Xylenes)	122 - 2446	ND	

Final Approval



Karen Winternheimer
30Mar2023
03:04:00 PM MDT

PREPARED BY / DATE



Sam Smith
30Mar2023
03:07:00 PM MDT

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<https://results.botanacor.com/api/v1/coas/uuid/4c477a9b-58d3-43eb-866e-ceb0873333d5>

Definitions

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Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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4c477a9b58d343eb866e-ceb0873333d5.1

CERTIFICATE OF ANALYSIS

Prepared for:
ASPEN GREEN

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

Calm FS CBD Gummies Lemon

Batch ID or Lot Number: 230410H	Test: Mycotoxins	Reported: 29Mar2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000239295	Started: 28Mar2023	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 27Mar2023	Status: Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.76 - 122.32	ND	N/A
Aflatoxin B1	1.00 - 31.71	ND	
Aflatoxin B2	1.00 - 31.43	ND	
Aflatoxin G1	1.13 - 31.24	ND	
Aflatoxin G2	1.10 - 31.80	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Sam Smith
29Mar2023
06:44:00 AM MDT

PREPARED BY / DATE



Karen Winternheimer
29Mar2023
06:47:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/8050fb10-2325-418b-93c7-e6fc40dd2d46>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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