

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Dog Chews
PRODUCT STRENGTH: 2 mg / chew
DOG TREAT LOT NUMBER*: 102523
BEST BY DATE 10/25/25

Physical Attributes

Test	Method	Specification	Results
Color	SOP-100	Brown	PASS
Odor	SOP-100	Beef, grains, somewhat yeasty	PASS
Appearance	SOP-100	Squat cylindrical dog treats a plastic amber container	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Container caps tight and shrink bands intact.	PASS
Secondary Package Eval.	SOP-132	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
Potency - Total CBD	SOP-111	1.9-2.5 mg CBD / ea. LOQ*: 10 PPM† (0.001%)	2.3 mg/chew	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	ND	PASS
Compliant Pesticide Panel	SOP-111	WIP-100008 : Product specification for Bulk Dog Treats, Oregon Action limits apply	ND	PASS
Microbial - Full Panel	SOP-111	Complies with USP 61/62	ND	PASS
CA Compliant Heavy Metal Panel	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	ND	PASS

* Level of Quantitation, † Parts Per Million

Quality Certified by:

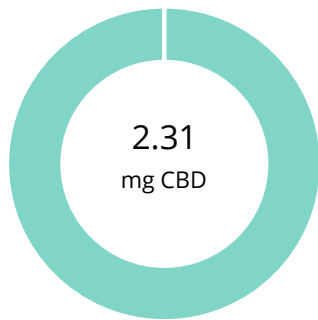


3/24/24

4W~~X~~ 4SL~~a~~ 6aY5ZWeZ~~S~~_Y546

Batch ID:	102523	Test ID:	T000260214
Type:	Unit	Submitted:	10/27/2023 @ 12:29 PM
Test:	Potency	Started:	10/30/2023
Method:	TM14 (HPLC-DAD)	Reported:	10/31/2023

CANNABINOID PROFILE



CBD	0.05%
CBDa	0.00%
delta 9 THC	0.00%
THCa	0.00%

Compound	LOQ (mg)	Result (mg)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.55	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.63	ND	ND
Cannabidiolic acid (CBDA)	0.64	ND	ND
Cannabidiol (CBD)	0.62	2.31	0.5
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.69	ND	ND
Cannabinolic Acid (CBNA)	0.39	ND	ND
Cannabinol (CBN)	0.18	ND	ND
Cannabigerolic acid (CBGA)	0.58	ND	ND
Cannabigerol (CBG)	0.14	0.31	0.1
Tetrahydrocannabivarinic Acid (THCVA)	0.49	ND	ND
Tetrahydrocannabivarin (THCV)	0.13	ND	ND
Cannabidivarinic Acid (CBDVA)	0.27	ND	ND
Cannabidivarin (CBDV)	0.15	ND	ND
Cannabichromenic Acid (CBCA)	0.22	ND	ND
Cannabichromene (CBC)	0.24	ND	ND
Total Cannabinoids		2.62	0.6
Total Potential THC**		ND	ND
Total Potential CBD**		2.31	0.5

NOTES:

of Servings = 1, Sample Weight=4.5g

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

** 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))

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

FINAL APPROVAL

 Sam Smith 31-Oct-2023 2:30 PM	 Karen Winterheime 31-Oct-2023 2:32 PM
PREPARED BY / DATE	APPROVED BY / DATE

Testing results are based solely upon the sample submitted to SC Laboratories, Inc. SC Laboratories, Inc warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. All decision rulings are in accordance with the MED and results uploaded to METRC. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited A2LA Certificate Number 4329.01



Certificate #4329.02

Beef & Bacon Dog Chews - 2mg CBD

Batch ID or Lot Number: 102523	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 2 of 5
Reported: 02Nov2023	Started: 02Nov2023	Received: 01Nov2023	


Pesticides


Test ID: T000260532

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	323 - 2856	ND		Malathion	288 - 2644	ND
Acephate	43 - 2689	ND		Metalaxyl	42 - 2661	ND
Acetamiprid	42 - 2679	ND		Methiocarb	46 - 2675	ND
Azoxystrobin	44 - 2663	ND		Methomyl	43 - 2708	ND
Bifenazate	44 - 2666	ND		MGK 264 1	158 - 1606	ND
Boscalid	42 - 2654	ND		MGK 264 2	108 - 1083	ND
Carbaryl	41 - 2678	ND		Myclobutanil	51 - 2691	ND
Carbofuran	47 - 2640	ND		Naled	44 - 2648	ND
Chlorantraniliprole	43 - 2675	ND		Oxamyl	44 - 2722	ND
Chlorpyrifos	42 - 2748	ND		Paclobutrazol	44 - 2667	ND
Clofentezine	269 - 2680	ND		Permethrin	293 - 2776	ND
Diazinon	272 - 2675	ND		Phosmet	45 - 2545	ND
Dichlorvos	258 - 2738	ND		Prophos	280 - 2684	ND
Dimethoate	43 - 2617	ND		Propoxur	45 - 2661	ND
E-Fenpyroximate	282 - 2766	ND		Pyridaben	292 - 2733	ND
Etofenprox	45 - 2792	ND		Spinosad A	33 - 2080	ND
Etoxazole	281 - 2669	ND		Spinosad D	62 - 673	ND
Fenoxycarb	42 - 2699	ND		Spiromesifen	265 - 2742	ND
Fipronil	30 - 2741	ND		Spirotetramat	284 - 2702	ND
Flonicamid	50 - 2736	ND		Spiroxamine 1	17 - 998	ND
Fludioxonil	285 - 2644	ND		Spiroxamine 2	27 - 1557	ND
Hexythiazox	43 - 2789	ND		Tebuconazole	279 - 2638	ND
Imazalil	265 - 2708	ND		Thiacloprid	43 - 2700	ND
Imidacloprid	46 - 2726	ND		Thiamethoxam	42 - 2694	ND
Kresoxim-methyl	44 - 2675	ND		Trifloxystrobin	48 - 2684	ND

Final Approval


 Sam Smith
 06Nov2023
 07:06:00 AM MST
 PREPARED BY / DATE


 Karen Winternheimer
 06Nov2023
 07:14:00 AM MST
 APPROVED BY / DATE

Beef & Bacon Dog Chews - 2mg CBD

Batch ID or Lot Number: 102523	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 5
Reported: 02Nov2023	Started: 02Nov2023	Received: 01Nov2023	


**Residual Solvents -
Colorado Compliance**


Test ID: T000260535

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	91 - 1824	ND	
Butanes (Isobutane, n-Butane)	180 - 3593	ND	
Methanol	61 - 1218	ND	
Pentane	94 - 1875	ND	
Ethanol	94 - 1881	ND	
Acetone	97 - 1947	ND	
Isopropyl Alcohol	102 - 2047	ND	
Hexane	6 - 119	ND	
Ethyl Acetate	99 - 1986	ND	
Benzene	0.2 - 3.9	ND	
Heptanes	96 - 1914	ND	
Toluene	18 - 354	ND	
Xylenes (m,p,o-Xylenes)	129 - 2575	ND	

Final Approval


 Karen Winternheimer
 02Nov2023
 02:35:00 PM MDT
 PREPARED BY / DATE


 Sam Smith
 02Nov2023
 02:37:00 PM MDT
 APPROVED BY / DATE

Beef & Bacon Dog Chews - 2mg CBD

Batch ID or Lot Number: 102523	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 3 of 5
Reported: 02Nov2023	Started: 02Nov2023	Received: 01Nov2023	


Microbial Contaminants - Colorado Compliance

Test ID: T000260533
Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)

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

Final Approval


Brianne Maillot
05Nov2023
01:05:00 PM MST



Eden Thompson-Wright
06Nov2023
10:23:00 AM MST


Heavy Metals - Colorado Compliance

Test ID: T000260534
Methods: TM19 (ICP-MS): Heavy Metals

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.74	ND	
Cadmium	0.05 - 4.80	ND	
Mercury	0.05 - 4.59	ND	
Lead	0.05 - 4.86	ND	

Final Approval


Sam Smith
07Nov2023
02:36:00 PM MST


Karen Winternheimer
07Nov2023
02:38:00 PM MST

Beef & Bacon Dog Chews - 2mg CBD


Batch ID or Lot Number: 102523	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 5 of 5
Reported: 02Nov2023	Started: 02Nov2023	Received: 01Nov2023	


Mycotoxins - Colorado Compliance

Test ID: T000260536
Methods: TM18 (UHPLC-QQQ)

LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.98 - 124.11	ND	N/A
Aflatoxin B1	0.87 - 32.51	ND	
Aflatoxin B2	2.14 - 32.21	ND	
Aflatoxin G1	0.93 - 32.27	ND	
Aflatoxin G2	1.11 - 32.36	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Samantha Simms
08Nov2023
10:06:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
08Nov2023
10:19:00 AM MST
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/de73b23c-06b9-495a-92e8-abd46be00c2e>

Definitions
LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (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)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC 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)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. 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.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



Cert #4329.02
de73b23c06b9495a92e8abd46be00c2e.1