

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Dog Chews
PRODUCT STRENGTH: 2 mg / chew
FILL LOT NUMBER: [CODSC20-19 / 2641107](#)
DOG TREAT LOT NUMBER*: 20281A
BEST BY DATE: 01/17/2022

Click on the links to view third-party reports

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: Kei Horikawa 12/14/2020
 Kei Horikawa Date
 Quality Control Manager



total cannabinoids	Δ9-THC	THCa	total THC
3 mg	0.00 mg	0.00 mg	0.00 mg
per	CBD	CBDa	total CBD
chew	2.3 mg	0.00 mg	2.3 mg

Lot# 20281A

This Product
Has Been
Tested and
Complies with
7USC1639o(1)
Definition of
Hemp



Stillwater
Laboratories

<https://portal.a2la.org/scopepdf/4961-01.pdf>

Sample Handling

test ID	sample wt	134.5 g
type	order	9182
lab ID	sample date	12/10/2020
unit	unit weight	4.3 g

Methods	method	equipment
weights	MSP-7.3.1.3	AUX120.1
potency	MSP-7.5.1.5	LC-2030
terpenes	MSP-7.5.1.7	QP2020/HS20
pesticides	MSP-7.5.1.8	LC-8060
mycotoxins	MSP-7.5.1.8	LC-8060
microbial	MSP-7.5.1.1	AriaMx/Hardy
solvents	MSP-7.5.1.6	QP2020/HS20
metals	MSP-7.5.1.1	ICPMS2030



Potency	per	chew	estimated error	Terpenes	%	estimated error	%	estimated error	%	estimated error
tetrahydrocannabinolic acid (THCa)	0%	0.00 mg	± 0.07 mg	terpenes not tested / not required						
Δ ⁹ -tetrahydrocannabinol (Δ ⁹ THC)	0%	0.00 mg	± 0.07 mg							
Δ ⁸ -tetrahydrocannabinol (Δ ⁸ THC)	0%	0.00 mg	± 0.07 mg							
tetrahydrocannabivarin (THCv)	0%	0.00 mg	± 0.07 mg							
cannabidiolic acid (CBDA)	0%	0.00 mg	± 0.07 mg							
cannabidiol (CBD)	.05%	2.3 mg	± 0.12 mg							
cannabidivarin (CBDv)	0%	0.04 mg	± 0.07 mg							
cannabigerolic acid (CBGa)	0%	0.00 mg	± 0.07 mg							
cannabigerol (CBG)	0%	0.03 mg	± 0.07 mg							
cannabinol (CBN)	0%	0.04 mg	± 0.07 mg							
cannabichromene (CBC)	.01%	0.35 mg	± 0.08 mg							

Solvents	MT limit	0MJ36	LOQ	Pesticides (MT)	MT limit	0MJ36	LOQ	Pesticides (other)	0MJ36	LOQ
				abamectin		0.00 ppm	<10ppb	acephate	0.00 ppm	<10ppb
				acequinocyl		0.00 ppm	<10ppb	acetamiprid	0.00 ppm	<10ppb
				bifenazate		0.00 ppm	<10ppb	aldicarb	0.00 ppm	<10ppb
				bifenthrin		0.00 ppm	<10ppb	azoxystrobin	0.00 ppm	<10ppb
				chloromequat cl.		0.00 ppm	<10ppb	boscalid	0.00 ppm	<10ppb
				cyfluthrin		0.00 ppm	<80ppb	carbaryl	0.00 ppm	<10ppb
				diaminozide		0.00 ppm	<10ppb	carbofuran	0.00 ppm	<10ppb
				etoxazole		0.00 ppm	<10ppb	chloantranilprole	0.00 ppm	<10ppb
				fenoxycarb		0.00 ppm	<10ppb	chlorpyrifos	0.00 ppm	<10ppb
				imazalil		0.00 ppm	<10ppb	clofentezine	0.00 ppm	<10ppb
				imidacloprid		0.00 ppm	<10ppb	cypermethrin	0.00 ppm	<10ppb
				myclobutanil		0.00 ppm	<10ppb	diazinon	0.00 ppm	<10ppb
				paclobutrazol		0.00 ppm	<10ppb	dichlorvos	0.00 ppm	<10ppb
				pyrethrins		0.00 ppm	<10ppb	dimethoate	0.00 ppm	<10ppb
				spinosad		0.00 ppm	<10ppb	etofenprox	0.00 ppm	<10ppb
				spiromesifen		0.00 ppm	<10ppb	fenpyroximate	0.00 ppm	<10ppb
				spirotetramat		0.00 ppm	<10ppb	fipronil	0.00 ppm	<10ppb
				trifloxystrobin		0.00 ppm	<10ppb	flonicamid	0.00 ppm	<10ppb

Toxic Metals	MT limit	0MJ36	LOQ
arsenic	2 ppm	0.0 ppm	<10ppb
cadmium	4.1 ppm	0.0 ppm	<10ppb
lead	1.2 ppm	0.0 ppm	<10ppb
mercury	0.4 ppm	0.0 ppm	<10ppb

Comments

Microbial	MT limit	0MJ36	LOQ
<i>E. coli</i>	10 CFU	0 CFU	<10 CFU/g
Salmonella sp.	10 CFU	0 CFU	<10 CFU/g
molds	10000 CFU	0 CFU	<10k CFU/g
Aflatoxin B1,B2,G1,G2	20 ppb	0 ppb	<20 ppb
Ochratoxin A	20 ppb	0 ppb	<20 ppb

• All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{dilution}/m_{dry}. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)_{GCMS} / m_{dry}. •• Decarboxyted cannabinoid concentration is calculated from the equation XXX_{total} = 0.877 x XXX_a + XXX ••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula s_g² = Σ(∂f/∂i)²s_i² where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{CL90} x s_g. Sampling error is not

Certified by:

Kyle Larson, MSc (Biology)
Deputy Director
6073 US93N, Olney MT 59927
406-881-2019 rdb@stlwlabs.com

kresoxym-methyl	0.00 ppm	<10ppb
malathion	0.00 ppm	<10ppb
metalaxyl	0.00 ppm	<10ppb
methiocarb	0.00 ppm	<10ppb
methomyl	0.00 ppm	<10ppb
oxamyl	0.00 ppm	<10ppb
permethrins	0.00 ppm	<10ppb
phosmet	0.00 ppm	<10ppb
piperonyl butoxide	0.00 ppm	<10ppb
prallethrin	0.00 ppm	<10ppb
propiconazole	0.00 ppm	<10ppb
pyridaben	0.00 ppm	<10ppb
spiroxamine	0.00 ppm	<10ppb
tebuconazole	0.00 ppm	<10ppb
thiacloprid	0.00 ppm	<10ppb
thiamethoxam	0.00 ppm	<10ppb

CERTIFICATE OF ANALYSIS

ISO/IEC 17025:2017 ACCREDITATION #103104



Order #: 48194
 Order Name: DSC_2641107
 Batch#: DSC_2641107
 Received: 02/10/2020
 Completed: 02/27/2020

Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 02/27/2020 12:30:55

PCR - Agilent AriaMX

Test	Test Method Used	Device Used	LOD	Allowable Criteria	Actual Result	Pass/Fail
STEC E.COLI*	USP 61/62†	ARIAMX PCR	2 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS
SALMONELLA*	USP 61/62†	ARIAMX PCR	5 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS
ASPERGILLUS	USP 61/62†	ARIAMX PCR	ASP_LOD***	PRESENCE / ABSENT	BELOW LOD	PASS
YEAST AND MOLD	USP 61/62†	ARIAMX PCR	363.05518 CFU/G**	1,000	BELOW THRESHOLD	PASS
TOTAL AEROBIC BACTERIA	USP 61/62†	ARIAMX PCR	0.25316 CFU/G**	10,000	BELOW THRESHOLD	PASS
COLIFORM	USP 61/62†	ARIAMX PCR	3.41539 CFU/G**	100	BELOW THRESHOLD	PASS
ENTEROBACTERIACEAE	USP 61/62†	ARIAMX PCR	0.32951 CFU/G**	100	BELOW THRESHOLD	PASS

† USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc)

* STEC and Salmonella run as Multiplex

** CFU/g Calculation based on Select Category Type Gummy MIP/Extract Flower matrix

*** Flavus = 2 Copies of DNA / Fumigatis = 2 Copies of DNA Niger = 20 Copies of DNA / Terrus = 10 copies of DNA

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

Green Scientific Labs
 info@greenscientificlabs.com
 1-833 TEST CBD



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CONFIDENTIAL EXTRACTOR

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Rich Dog TreatsPRODUCT CODE: K9-X-Y-Z-ALOT NUMBER: CODSC20-19DATE OF MANUFACTURE: 17JAN2020EXPIRATION DATE: 17JAN2022

(DDMMYYYY)

(Expiration date is 24 months
under sealed conditions.)

INGREDIENTS:

Brewer's yeast, water, Beef Liver Powder, Glycerin, Natural Bacon Flavor, Flaxseed Oil, Organic Sweet Potato Powder, Gum Arabic, Microcrystalline Cellulose, Sunflower Lecithin, Salt, Citrus Pectin, Sodium Alginate, Sorbic Acid, Water Soluble Powder containing Broad Spectrum CBD Oil (0.0% THIC) (dextrin carrier), Sodium Propionate, Calcium Sulfate Dihydrate, Natural Mixed Tocopherols (Natural Preservative).

Parameter	Method ¹	Specification	Results
Appearance	QCU002	Soft Cylindrical Solid	Pass
Color		Brown	Pass
Cannabinoids		LOQ (ppm)	Wt. (%) (mg/g)
CBD		20	0.0478 0.478
CBD-A		20	< LOQ < LOQ
Δ^9 -THC		5	< LOQ < LOQ
THC-A		5	< LOQ < LOQ
CBN		5	< LOQ < LOQ
CBN-A		5	< LOQ < LOQ
CBG	QCU001 (UHPLC-DAD)	5	< LOQ < LOQ
CBC		5	< LOQ < LOQ
CBC-A		5	< LOQ < LOQ
Δ^8 -THC		5	< LOQ < LOQ
CBDV		5	< LOQ < LOQ
CBDV-A		5	< LOQ < LOQ
THCV		5	< LOQ < LOQ
Potency – Total CBD		NLT 1.8mg/Chew	2.1 mg/Chew
Total THC		0.0%	0.0%
Identity – CBD		Retention Time \pm 0.05min of Standard	0.00 min
Terpenes ²	GC/FID & LC/MS	Refer to Oil Specification	Refer to Oil Specification
Pesticides ²	LC/MS & GC/MS	Refer to Oil Specification	Refer to Oil Specification
Residual Solvents ²	USP <467>	Refer to Oil Specification	Refer to Oil Specification
Elemental Impurities ²	USP <2232>	Refer to Oil Specification	Refer to Oil Specification

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