



# JOY ORGANICS

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Joy Organics Dog Chews  
**PRODUCT STRENGTH:** 2 mg / chew  
**FILL LOT NUMBER:** 2952501 - tested under lot number 21215A  
**DOG TREAT LOT NUMBER:** 21224A  
**BEST BY DATE:** 06/2023

*\*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	*NLT 2 mg / Chew	3.0 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 Chews, 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 Quantification, † Parts Per Million  
 \*\*Nothing Less Than

Quality Certified by:

*Kayla Kolber*  
 Kayla Kolber  
 Quality Control Technician

08/19/2021

Date

certificate ID

1HC97

Chew

sample ID Lot# 21215A
source ID 1Z435FV90292362677



total cannabinoids
3.3mg

per
chew

THC± ND
CBD± 3.0mg

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

Stillwater Laboratories



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Table with columns: Potency per, error, LOD, LOQ, result. Rows include total cannabinoids, total THC, total CBD, and various cannabinoid acids and derivatives.

Table with columns: Terpenes, total terpenes, LOD, LOQ, error, result. Rows include caryophyllene, humulene, terpinolene, ocimene, beta pinene, alpha pinene, limonene, myrcene, and linalool.

Table with columns: Microbial, MSP-7.5.1.10, limit, LOD, LOQ, error, result. Rows include E.coli, Salmonella sp., molds, Ochratoxin A, and Aflatoxin B1B2G1G2.

Table with columns: Pesticides, MSP-7.5.1.8, % limit, LOD, LOQ, error, result. Lists numerous pesticides such as Abamectin, Acephate, Acequinocyl, etc.

Table with columns: Solvents, MSP-7.5.1.7, limit, LOD, LOQ, error, result. Lists solvents like Acetone, Acetonitrile, Benzene, Butane, Chloroform, Cyclohexane, Ethanol, Heptane, Hexane, Isopropyl alcohol, Methanol, Pentane, Propane, Toluene, and Xylenes.

Table with columns: Metals, MSP-7.5.1.11, limit, LOD, LOQ, error, result. Lists metals like Arsenic, Cadmium, Lead, and Mercury.

Table with columns: Pesticides, MSP-7.5.1.8, limit, LOD, LOQ, error, result. Lists pesticides like Pyrethrin, Pyridaben, Spinetoram, Spinosad, Spiromesifen, Spirotetramat, Spiroxamine, Tebuconazole, Thiachloprid, Thiamethoxam, and Trifloxystrobin.

Certified by:

Handwritten signature of the certifier.



https://customer.a2la.org/index.cfm?event=directory\_detail&labPID=423635B2-5128-4C6F-871A-419DC4380D7

Stillwater Laboratories Inc.
MT License L0001, L00007
6073 US93N Suite 5, Olney MT 59927
406-881-2019

INSTRUMENTS: Potency by HPLC (LC2030C-UV), solvents and terpenes by GCMS (QP2020/HS20), pesticides and mycotoxins by LCMSMS (LC8060), microbial by qPCR (AriaMx) and plating (Hardy Diagnostics), metals by ICPMS (ICPMS-2030)

All testing was completed onsite at 6073 US93N, Olney MT. Potency (cannabinoid concentration) is calculated as: [cannabinoid] = [cannabinoid]HPLC x volume\_dilution / m\_dry. ... Decarboxyated cannabinoid concentration is calculated XXX\_tot = 0.877 x XXXa + XXX. Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection (3.3s), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula s\_e^2 = sum((d/di)^2 \* s\_i^2) where i is the contributor to error. The 95% confidence range is calculated from: (concentration) +/- t\_C1.90 x s\_e. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. ‡ = decarbed

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SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

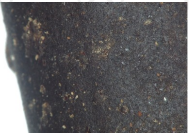
certificate ID  
**1HL25**

**CHEW-21224A**

1Z435FV90338456283

# 7USC1639 Certificate of Analysis

Joy Organics



Stillwater  
Laboratories



order 11538

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Report Version: 1  
Analysis Location: L-00001

### Microbial

	MSP-7.5.1.10	limit	LOD	LOQ	error	result
E.coli	ND	OCFU	0.010.11	±0.1CFU		PASS
Salmonella sp.	ND	OCFU	0.010.11	±0.1CFU		PASS
molds	ND	10000CFU	1.815.51	±5.5CFU		PASS

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

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**Stillwater Laboratories Inc.**  
MT License L0001, L00007  
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