

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Joy Organics CBD Dog Chews

PRODUCT STRENGTH:  $\frac{2 \text{ mg / chew}}{}$ 

**BATCH**: 22080C

**BEST BY DATE**: <u>11/2023</u> 3004364

## \*Click on the links to view third-party reports\*

### Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Brown	PASS
Odor	Joy Internal	Beef and grains, with some yeast	PASS
Appearance	Joy Internal	Squat cylindrical dog treats a plastic amber container	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Container caps tight and pressure seal is intact.	PASS
Secondary Package Eval.	econdary Package Eval. Joy Internal 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	HPLC-UV DAD	LOQ*: ≥ 2 mg / chew	2.1 mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	<0.01%	PASS
Pesticide Panel	LCMS-MS	Not Tested	N/A	N/A
Microbial Escherichia coli (STEC)	qPCR	Complies with USP 61/62	Absent	PASS
Microbial Salmonella	qPCR	Complies with USP 61/62	Absent	PASS
Microbial Yeast and Mold	Culture Plating	Complies with USP 61/62	Below LOQ	PASS
Microbial Total Coliforms	Culture Plating	Complies with USP 61/62	Below LOQ	PASS
Microbial Total Aerobic Count	Culture Plating	Complies with USP 61/62	3.5 x 10 <sup>3</sup>	PASS
Heavy Metals	ICP-MS	Arsenic (As): ≤1.5 ppm† Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	Below LOQ	PASS
Mycotoxins	LCMS-MS	Total Aflatoxins <20 ppb†† Afltoxin B1 < 20 ppb Ochratoxin < 20 ppb	Below LOQ	PASS
Residual Solvents	GC-MS	Not Tested	N/A	N/A

<sup>\*</sup>Level of Quantification

† Parts Per Million †† Part Per Billion

Quality Certified Keegan Schlittler 03/29/2022

Keegan Schlittler Date

Quality Assurance Manager



Certificate

of Analysis

879 Federal Blvd Denver, CO. 80204, USA



Sample: DE11119027-004

Harvest/Lot ID: N/A

Batch#: N/A

Seed to Sale# 1A4000B00010DZ500000088Z

Batch Date: N/A

Sample Size Received: 48 grant

Total Weight/Volume: N/A

Retail Product Size: N/A gram Ordered 11/18/21

sampled 11/18/21 Completed: 11/27/21

Sampling Method: SOP 024

Nov 27, 2021 |

License # 405R-00011 Colorado Springs, CO, 80915, US





Page 1 of 2

PRODUCT IMAGE

SAFETY RESULTS



Pesticides





Heavy Metals



Mycotoxins



Residuals Solvents



Filth



Water Activity



Moisture



Homogeneity NOT TESTED



MISC.

CANNABINOID RESULTS



**Total THC** 



Total CBD



**Total Cannabinoids** 0.054%



#### Cannabinoid Profile Test

Analyzed by

Weight

Extraction date:

Extracted By :

Analysis Method -50P-020 (R15)

Reviewed On - 11/23/21 15:07:42

Batch Date: 11/22/21 10:45:53

Analytical Batch -DE002697POT Instrument Used ; Agilent 1100 "Falcor" Running On: 11/22/21 19:00:41

Reagent

Consums. ID

BG045

Consums. ID

923C4-923AK



879 Federal Blvd Denver, CO, 80204, USA



# **Certificate of Analysis**

PASSED

519 Wooten Rd Suite 110 Colorado Springs, CO, 80915, US Telephone:718-174-2160

Email: and an active fundamental execution of the comments of

Liceuse #: 4058-07001

Sample: DE11119027-004 Harvest/LOT ID: N/A

Batch# : MA

Sampled 11111111 Ordered:

Sample Size Received 348 Wall

Total Weight/Volume : N/4

Completed: Expires: Market

Sample Method : 504 024

Page 2 of 2



Analyzari by

#### Microbials

## PASSED

Result

HISTORY HAVE THE A DEAD

Extracted By



#### Mycotoxins



Level

Analyte		
TOTAL YEAST AND MOLD		
SHIGA TOXIN PRODUCING	ESCHERITHIA	ECLI STEE
SALMONELLA SPECIES		
TOTAL AEROBIC		
TOTAL COLLEGEM		

Analysis Method -508-861 (67): 578-662 (62): 508-863 (83) Analytical Batch stress and analytical Batch Date: 11/72/21 15/85/40 Instrument Used | Microbial - Full Pure Running On: 11 1 2 2 1 1 3 1 3 3

Weight

S.	27.240		14.0 17.1 14.4.1.39		the structed by	
Reagent	Reagent	Reagent	Dilution	Consums. ID	Consums. ID	
Total Section 1	11223 885 9530 55 9582 67 10052 67 10232 47 10232 61	\$1122 m; 52272 20 53867 Apr 510272 Apr 11122 Moja 02772 13	,	1856 1960 1960 1960 277 4 1960 200 27 4 197 210 22 4 28 22 6 27 4 195	6718-12711 25-0676 17-054 10-055-13-1	

Extraction date

Analyte	LOD	Units	Result	Action
AFLATOXIN G?	0.303	100	NO	
AFLATOXIN G1	0.000		800	
AFLATOXIN B2	0.0904		NU	73
AFLATOXIN BI	1.121	and the	NO	28
OCHRATOXIN A+	0.0491	202	2070	20
AFLATOXINS		DEE	V	701

Analysis Method - 1015/660 (MS) Aimlytical Batch-Occopy MINE | Reviewed On - 11 15 22 14-21 15 Instrument Used Essing Atoli Green Principality

Running On I

Analyzed by	Weight	Extraction date	Extracted By
1696	4,17030	11/22/21 02:11:32	1000



#### **Heavy Metals**

## PASSED

Reagent		Dilution		)
90170 11 100171 01 17008198 170721 93		76		
Metal	LOD	Unit	Result	Action Level
ARSENIC	0.0020	COTT	0.251	1.5
CADMIUM	11.07110	COPTE	0.000	9.5
MERCURY	11.00316	papers	NO	147.
LEAD	55101	ppm	(2.114))	10
Analyzed by	Weight	Extraction	n date	Extracted By
7	0.22230	110332171	-14:31	1696
Amalus is the blood	COR OSO INSI			

Analytical Batch - DE002701HEA | Reviewed On - F1. M 21 10 27 to

Instrument Used: Shimating 2010 109-10.
Running On 113/24/11 Tellish

Batch Date FAUTHER OF THE



## **Official Compliance: Colorado**

CERTIFICATE OF ANALYSIS

FT. COLLINS, CO 80528

Prepared for:

**JOY ORGANICS CHEW** 

Batch ID or Lot Number: Reported: Test: Location: 5042 Technology Parkway Ste. 50 3/28/22

22080A **Microbial Contaminants** 

**USDA License:** Test ID: Started: Matrix:

**Finished Product** T000199905 3/25/22 N/A

Methods: Sampler ID: Status: Received:

TM25 (qPCR) 03/25/2022 @ 10:31 AM N/A N/A

TM24, TM26, TM27(Culture Plating):

Microbial

## MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	3.5x10^3 CFU/g
Total Coliforms*	TM-27, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
Total Yeast and Mold*	TM-24, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
STEC	TM-25, PCR	10^0 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	10^0 CFU/25 g	NA	NA	Absent

**Notes** 

Free from visual mold, mildew, and foreign matter

Jackson Osaghae-Nosa 3/28/2022

4:16:00 PM

Buanne Maillot

Brianne Maillot 3/28/2022 4:34:00 PM

PREPARED BY / DATE

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:  $10^2 = 100 CFU$ 

10^3 = 1.000 CFU 10^4 = 10,000 CFU 10^5 = 100,000 CFU

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories,





Certificate #4329 02