CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Joy Organics CBD Dog Chews
PRODUCT STRENGTH:	2 mg / chew
BATCH:	22080C
BEST BY DATE:	11/2023
Bulk LOT:	3004364

Click on the links to view third-party reports

Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Brown	PASS
Odor	Internal	Beef and grains, with some yeast	PASS
Appearance	Internal	Squat cylindrical dog treats a plastic amber container	PASS
Primary Package Eval.	Internal	Container clean and free of filth. Container caps tight and pressure seal is intact.	PASS
Secondary Package Eval.	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	$LOQ^* \ge 2 mg / chew$	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 ³	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

*Level of Quantification † Parts Per Million †† Part Per Billion

Keegan Schlittler Quality Certified Keegan Schlittler

03/29/2022

Quality Assurance Manager

Date



Certificate of Analysis

SAFETY RESULTS

瓦:

0 Pesticides Hg

Heavy Metals

PASSED

Kaycha Labs

CODSC21-17/300436-N/A Matrix: Infused



Sample: DE11119027-004 Harvest/Lot ID: N/A Batch#: N/A Seed to Sale# 1A4000B00010D25000000882 Batch Date: 1/A Sample Size Received: 48 gran 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

Page 1 of 2

Nov 27, 2021 | License # 405R-00011 Colorado Springs, CO, 80915, US

PRODUCT MAGE

Microbials



Solvents

Mycotoxins

PASSED



and the second states







Moisture



Incones

MISC.

Homogeneity

NOT TESTED

CANNABINOID RESULTS **Total THC** Total CBD **Total Cannabinoids** 0.003% 0.05% 0.054% **Cannabinoid Profile Test** Analyzed by Weight Extraction date : Extracted By : Analysis Method -SOP-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 Dilution Consums. ID Consums. ID 4.0 923C4-923AK

86045



Certificate of Analysis

879 Federal Blvd Denver, CO, 80204, USA

4364 N/A Matrix : Infused



PASSED

	n Rd Suite 110	n		Sample : DE1 Harvest/LOT		004						
Colorado 5 Telephone Email:	ntings, CO, 80 21715-174-215 23.0-000010 2058-000011	915, US V		Batch# : : : A Sampled : 1 Ordered : 1		Total Weig Completed	ze Received ght/Volume : d : Exp ethod : A A A A A A A A A A A A A A A A A A	n/4 pires: 11/2)		F	Page 2 of 2	
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							Analysis Method Analytical Batch Instrument Ured Running On Batch Date	DE002701HEA : : : : : : : : : : : : : : : : : : :		n = (1,54(21)	110 77 Ma	
							Applitude and the second second					



CHEW

Batch ID or Lot Number: 22080A	^{Test:} Microbial Contaminants	Reported: 3/28/22	
Matrix: Finished Product	Test ID: T000199905	Started: 3/25/22	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	Received: 03/25/2022 @ 10:31 AM	Sampler ID: N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
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	Free from visual mold,
Total Coliforms*	TM-27, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected	mildew, and foreign matter
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	

four op- on	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, LLC.





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