



JOY ORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Joy Organics Dog Chews
PRODUCT STRENGTH: 2 mg / chew
DOG TREAT LOT NUMBER*: 120622
BEST BY DATE: 12/2024

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 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

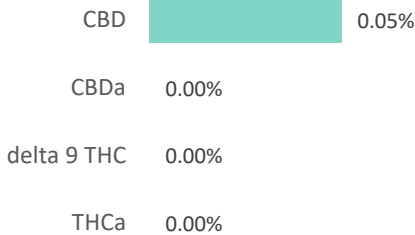
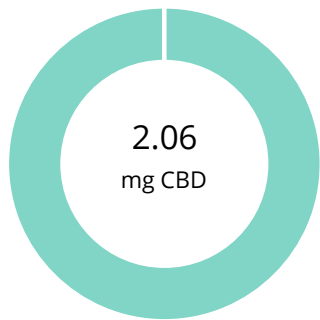
Quality Certified by: 
 Coral Cronin
 Quality Assurance Team

1/12/2023
 Date

CHEW - CBD Dog Treats 30ct 2mg

Batch ID:	120622	Test ID:	T000229798
Type:	Unit	Submitted:	12/06/2022 @ 01:30 PM
Test:	Potency	Started:	12/5/2022
Method:	TM14 (HPLC-DAD)	Reported:	12/7/2022

CANNABINOID PROFILE



Compound	LOQ (mg)	Result (mg)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.63	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.71	ND	ND
Cannabidiolic acid (CBDA)	0.74	ND	ND
Cannabidiol (CBD)	0.72	2.06	0.5
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.79	ND	ND
Cannabinolic Acid (CBNA)	0.45	ND	ND
Cannabinol (CBN)	0.21	ND	ND
Cannabigerolic acid (CBGA)	0.66	ND	ND
Cannabigerol (CBG)	0.16	0.27	0.1
Tetrahydrocannabivarinic Acid (THCVA)	0.56	ND	ND
Tetrahydrocannabivarin (THCV)	0.14	ND	ND
Cannabidivarinic Acid (CBDVA)	0.31	ND	ND
Cannabidivarin (CBDV)	0.17	ND	ND
Cannabichromenic Acid (CBCA)	0.25	ND	ND
Cannabichromene (CBC)	0.28	ND	ND
Total Cannabinoids		2.33	0.6
Total Potential THC**		ND	ND
Total Potential CBD**		2.06	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

K Winternheimer
Karen Winternheimer
7-Dec-2022
1:11 PM

PREPARED BY / DATE

Samantha Smith
Sam Smith
7-Dec-2022
1:16 PM

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

CHEW - CBD Dog Treats 30ct 2mg

Batch ID or Lot Number: 120122	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 4
Reported: 15Dec2022	Started: 14Dec2022	Received: 14Dec2022	


**Residual Solvents -
Colorado Compliance**


Test ID: T000230868

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	88 - 1757	ND	
Butanes (Isobutane, n-Butane)	176 - 3510	ND	
Methanol	58 - 1158	ND	
Pentane	95 - 1893	ND	
Ethanol	93 - 1867	ND	
Acetone	95 - 1896	ND	
Isopropyl Alcohol	96 - 1921	ND	
Hexane	6 - 113	ND	
Ethyl Acetate	97 - 1944	ND	
Benzene	0.2 - 3.9	ND	
Heptanes	97 - 1934	ND	
Toluene	17 - 343	ND	
Xylenes (m,p,o-Xylenes)	127 - 2539	ND	

Final Approval


 Karen Winternheimer
 15Dec2022
 01:46:00 PM MST
 PREPARED BY / DATE


 Sam Smith
 15Dec2022
 01:49:00 PM MST
 APPROVED BY / DATE

CHEW - CBD Dog Treats 30ct 2mg

Batch ID or Lot Number: 120122	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 2 of 4
Reported: 15Dec2022	Started: 14Dec2022	Received: 14Dec2022	

Pesticides


Test ID: T000230865

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	321 - 2637	ND		Malathion	284 - 2755	ND
Acephate	44 - 2805	ND		Metalaxyl	43 - 2742	ND
Acetamiprid	41 - 2778	ND		Methiocarb	44 - 2752	ND
Azoxystrobin	44 - 2739	ND		Methomyl	44 - 2780	ND
Bifenazate	41 - 2757	ND		MGK 264 1	182 - 1636	ND
Boscalid	45 - 2850	ND		MGK 264 2	119 - 1161	ND
Carbaryl	42 - 2760	ND		Myclobutanil	46 - 2750	ND
Carbofuran	41 - 2759	ND		Naled	43 - 2793	ND
Chlorantraniliprole	47 - 2775	ND		Oxamyl	42 - 2780	ND
Chlorpyrifos	53 - 2776	ND		Paclobutrazol	39 - 2755	ND
Clofentezine	273 - 2775	ND		Permethrin	166 - 2753	ND
Diazinon	280 - 2782	ND		Phosmet	41 - 2734	ND
Dichlorvos	286 - 2791	ND		Prophos	275 - 2783	ND
Dimethoate	42 - 2719	ND		Propoxur	41 - 2752	ND
E-Fenpyroximate	294 - 2748	ND		Pyridaben	291 - 2730	ND
Etofenprox	39 - 2748	ND		Spinosad A	34 - 2237	ND
Etoxazole	300 - 2730	ND		Spinosad D	51 - 491	ND
Fenoxycarb	43 - 2747	ND		Spiromesifen	280 - 2753	ND
Fipronil	40 - 2793	ND		Spirotetramat	270 - 2745	ND
Flonicamid	51 - 2761	ND		Spiroxamine 1	18 - 1194	ND
Fludioxonil	256 - 2801	ND		Spiroxamine 2	24 - 1562	ND
Hexythiazox	42 - 2732	ND		Tebuconazole	288 - 2716	ND
Imazalil	257 - 2783	ND		Thiacloprid	43 - 2770	ND
Imidacloprid	47 - 2785	ND		Thiamethoxam	41 - 2788	ND
Kresoxim-methyl	44 - 2789	ND		Trifloxystrobin	41 - 2773	ND

Final Approval


 Karen Winternheimer
 16Dec2022
 09:22:00 AM MST
 PREPARED BY / DATE


 Sam Smith
 16Dec2022
 09:32:00 AM MST
 APPROVED BY / DATE

CHEW - CBD Dog Treats 30ct 2mg

Batch ID or Lot Number: 120122	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 4
Reported: 15Dec2022	Started: 14Dec2022	Received: 14Dec2022	

Microbial Contaminants - Colorado Compliance

Test ID: T000230866
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	4.6x10 ³ CFU/g	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval

 Eden Thompson-Wright 18Dec2022 09:36:00 AM MST	 Brianne Maillot 19Dec2022 09:37:00 AM MST
PREPARED BY / DATE	APPROVED BY / DATE

Heavy Metals - Colorado Compliance

Test ID: T000230867
Methods: TM19 (ICP-MS): Heavy Metals

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.22	ND	
Cadmium	0.05 - 4.63	ND	
Mercury	0.04 - 4.44	ND	
Lead	0.05 - 4.50	ND	

Final Approval

 Sam Smith 20Dec2022 08:06:00 AM MST	 Karen Winternheimer 20Dec2022 08:07:00 AM MST
PREPARED BY / DATE	APPROVED BY / DATE

CHEW - CBD Dog Treats 30ct 2mg


Batch ID or Lot Number: 120122	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 4
Reported: 15Dec2022	Started: 14Dec2022	Received: 14Dec2022	

Mycotoxins - Colorado Compliance

Test ID: T000230869
Methods: TM18 (UHPLC-QQQ)

LCMS/MS: Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.36 - 130.35	ND	N/A
Aflatoxin B1	0.98 - 32.52	ND	
Aflatoxin B2	0.98 - 32.23	ND	
Aflatoxin G1	1.17 - 32.58	ND	
Aflatoxin G2	0.85 - 32.01	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
22Dec2022
08:42:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
22Dec2022
08:44:00 AM MST
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/13cdd5e-8794-40c2-ae55-5d85745bf285>

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.

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