

Certificate of Quality Assurance

PRODUCT NAME: Joy Dog Treats
PRODUCT STRENGTH: 2 mg
LOT NUMBER: CHEW-T236
MANUFACTURER BATCH #s: CODSWC19-3(4-9)
DATES OF MANUFACTURE: 10/1/2019, 10/2/2019
Expiration date is 18 months under sealed conditions.
DATES OF ANALYSES: 7/8/2019, 7/9/2019
ACTIVE INGREDIENT: Phytocannabinoid-Rich Hemp Oil
INACTIVE INGREDIENTS: See next page.

JOYTM

ORGANICS

Physical Attributes of Raw Hemp Oil

Attribute	Acceptance Criteria	Result
Appearance	Viscous Dark Amber Oil Possible Crystal Formation	Conforms
Aroma	Characteristic Hemp Aroma	Conforms
Dissolution	Not Cloudy or Turbid, Characteristic Color	Conforms
Microbial Testing	Total Aerobic Count <2000 cfu/g Total Yeast and Mold <2000 cfu/g	Conforms

Cannabinoid Potency of Raw Hemp Oil

Cannabinoid	Weight %
CBD	0.05
CBG	<0.03
CBN	<0.03
THC	ND
CBC	<0.03
THC-A	ND
CBD-A	<0.03

Pesticides*

Compound	Result	Compound	Result
Acequinocil	ND	Spinosad	ND
Pyrethrium	ND	Spirotetramat	ND
Spiromesifin	ND	Bifenazate	ND
Abamectin	ND	Fenoxycarb	ND
Imidacloprid	ND	Paclobutrazol	ND

Terpene Results*

Compound	Weight %	Compound	Weight %
β -Bisabolene	1.0-3.0	Camphene	0.1-0.2
β -Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Gualol	0.5-2.0	Farnesol	0.1-0.2
β -Maaliene	0.5-2.0	α -Bisabolol	< 0.1
Calarene	0.5-1.5	p-Cymene	< 0.1
β -Caryophyllene	0.1-1.0	Linalool	< 0.1
α -Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
α -Gurjunene	0.1-0.5	Isopulegol	< 0.1
d-Limonene	0.1-0.5	Terpinene	< 0.1
Nerolidol	0.1-0.5	Geraniol	< 0.1
α -Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	γ -Terpinene	< 0.1
Eucalyptol	0.1-0.2	δ -3-Carene	< 0.1

Residual Solvents*

Solvent	Weight %
Acetone	Compliant with USP<467>
Butane	Compliant with USP<467>
Ethanol	Compliant with USP<467>
Hexane	Compliant with USP<467>
Isobutane	Compliant with USP<467>
Isopropanol	Compliant with USP<467>
Pentane	Compliant with USP<467>

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JOYTM

ORGANICS

INACTIVE INGREDIENTS: Water, dried brewer's yeast, glycerin, gum arabic, sodium alginate, beef liver powder, natural bacon flavor, flaxseed oil, microcrystalline cellulose, organic sweet potato powder, sunflower lecithin (non-GMO), citrus pectin, dextrin, vitamin E, sodium propionate, calcium sulfate dihydrate, natural mixed tocopherols (natural preservative)

Heavy Metals*

Metal	Result
Cadmium	Compliant with USP<233>
Lead	Compliant with USP<233>
Arsenic	Compliant with USP<233>
Mercury	Compliant with USP<233>

Analysis Results for Finished Product

Attribute	Acceptance Criteria	Result
Appearance	Soft solid dark brown cylinders	Conforms
Aroma	Characteristic of product	Conforms
Cannabidiol Content	1.8 to 2.2 mg per chew	Conforms
THC Content	None Detected	Conforms

* Results based on testing of multiple batches of hemp oil raw material.

Quality Certified by:



Matthew Plenert, Ph.D
Head Chemist and Laboratory Manager

10-7-19

Date

QC Unit released by:



David Boaz
QC Manager

10-7-19

Date



This is an amended version of report# 086439-00.
Reason: Updated Product Identity

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Product identity: CODSWC19-3 (4-9)
Laboratory ID: 19-011485-0001

Client/Metric ID: .
Sample Date:

Summary

Potency:

Analyte per 7.37g	Result	Limits	Units	LOQ	
CBD per 7.37g	3.49		mg/7.37g	0.25	CBD-Total per 7.37g 3.49 mg/7.37g
					THC-Total per 7.37g < 0.461 mg/7.37
(Reported in milligrams per serving)					

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Customer: My CBD Test
Product identity: CODSWC19-3 (4-9)
Client/Metric ID: .
Sample Date:
Laboratory ID: 19-011485-0001
Relinquished by: Received By Mail
Temp: 21.4 °C
Serving Size #1: 7.37 g

Sample Results

Potency per 7.37g		Batch: 1908740					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 7.37g [†]	< LOQ		mg/7.37g	0.246	09/30/19	J AOAC 2015 V98-6	
CBC-A per 7.37g [†]	< LOQ		mg/7.37g	0.246	09/30/19	J AOAC 2015 V98-6	
CBC-Total per 7.37g [†]	< LOQ		mg/7.37g	0.461	09/30/19	J AOAC 2015 V98-6	
CBD per 7.37g	3.49		mg/7.37g	0.246	09/30/19	J AOAC 2015 V98-6	
CBD-A per 7.37g	< LOQ		mg/7.37g	0.246	09/30/19	J AOAC 2015 V98-6	
CBD-Total per 7.37g	3.49		mg/7.37g	0.461	09/30/19	J AOAC 2015 V98-6	
CBDV per 7.37g [†]	< LOQ		mg/7.37g	0.246	09/30/19	J AOAC 2015 V98-6	
CBDV-A per 7.37g [†]	< LOQ		mg/7.37g	0.246	09/30/19	J AOAC 2015 V98-6	
CBDV-Total per 7.37g [†]	< LOQ		mg/7.37g	0.459	09/30/19	J AOAC 2015 V98-6	
CBG per 7.37g [†]	< LOQ		mg/7.37g	0.246	09/30/19	J AOAC 2015 V98-6	
CBG-A per 7.37g [†]	< LOQ		mg/7.37g	0.246	09/30/19	J AOAC 2015 V98-6	
CBG-Total per 7.37g [†]	< LOQ		mg/7.37g	0.461	09/30/19	J AOAC 2015 V98-6	
CBL per 7.37g [†]	< LOQ		mg/7.37g	0.246	09/30/19	J AOAC 2015 V98-6	
CBN per 7.37g	< LOQ		mg/7.37g	0.246	09/30/19	J AOAC 2015 V98-6	
Δ8-THC per 7.37g [†]	< LOQ		mg/7.37g	0.246	09/30/19	J AOAC 2015 V98-6	
Δ9-THC per 7.37g	< LOQ		mg/7.37g	0.246	09/30/19	J AOAC 2015 V98-6	
THC-A per 7.37g	< LOQ		mg/7.37g	0.246	09/30/19	J AOAC 2015 V98-6	
THC-Total per 7.37g	< LOQ		mg/7.37g	0.461	09/30/19	J AOAC 2015 V98-6	
THCV per 7.37g [†]	< LOQ		mg/7.37g	0.246	09/30/19	J AOAC 2015 V98-6	
THCV-A per 7.37g [†]	< LOQ		mg/7.37g	0.246	09/30/19	J AOAC 2015 V98-6	
THCV-Total per 7.37g [†]	< LOQ		mg/7.37g	0.459	09/30/19	J AOAC 2015 V98-6	

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Pixis quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be kept a maximum of 15 days from the report date unless prior arrangements have been made.



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Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1908515	09/25/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1908515	09/25/19	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	1908514	09/25/19	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	1908514	09/25/19	AOAC 2014.05 (RAPID)	X

Pesticides											
		Method AOAC 2007.01 & EN 15662 (mod)				Units mg/kg	Batch 1908655	Analyze 09/25/19 08:58 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.250	pass	
Acequinocyl	< LOQ	2.0	1.00	pass		Acetamiprid	< LOQ	0.20	0.100	pass	
Aldicarb	< LOQ	0.40	0.200	pass		Azoxystrobin	< LOQ	0.20	0.100	pass	
Bifenazate	< LOQ	0.20	0.100	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.100	pass		Carbaryl	< LOQ	0.20	0.100	pass	
Carbofuran	< LOQ	0.20	0.100	pass		Chlorantraniliprole	< LOQ	0.20	0.100	pass	
Chlorfenapyr	< LOQ	1.0	0.500	pass		Chlorpyrifos	< LOQ	0.20	0.100	pass	
Clofentezine	< LOQ	0.20	0.100	pass		Cyfluthrin (incl.	< LOQ	1.0	0.500	pass	
Cypermethrin	< LOQ	1.0	0.500	pass		Daminozide	< LOQ	1.0	0.500	pass	
Diazinon	< LOQ	0.20	0.100	pass		Dichlorvos	< LOQ	1.0	0.500	pass	
Dimethoate	< LOQ	0.20	0.100	pass		Ethoprophos	< LOQ	0.20	0.100	pass	
Etofenprox	< LOQ	0.40	0.200	pass		Etoxazole	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximate	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		Fonicamid	< LOQ	1.0	0.400	pass	
Fludioxonil	< LOQ	0.40	0.200	pass		Hexythiazox	< LOQ	1.0	0.400	pass	
Imazalil	< LOQ	0.20	0.100	pass		Imidacloprid	< LOQ	0.40	0.200	pass	
Kresoxim-methyl	< LOQ	0.40	0.200	pass		Malathion	< LOQ	0.20	0.100	pass	
Metalaxyl	< LOQ	0.20	0.100	pass		Methiocarb	< LOQ	0.20	0.100	pass	
Methomyl	< LOQ	0.40	0.200	pass		MGK-264	< LOQ	0.20	0.100	pass	
Myclobutanil	< LOQ	0.20	0.100	pass		Naled	< LOQ	0.50	0.250	pass	
Oxamyl	< LOQ	1.0	0.500	pass		Paclbutrazole	< LOQ	0.40	0.200	pass	
Parathion-Methyl	< LOQ	0.20	0.200	pass		Permethrin	< LOQ	0.20	0.100	pass	
Phosmet	< LOQ	0.20	0.100	pass		Piperonyl butoxide	< LOQ	2.0	1.00	pass	
Prallethrin	< LOQ	0.20	0.100	pass		Propiconazole	< LOQ	0.40	0.200	pass	
Propoxur	< LOQ	0.20	0.100	pass		Pyrethrin I (total)	< LOQ	1.0	0.500	pass	
Pyridaben	< LOQ	0.20	0.100	pass		Spinosad	< LOQ	0.20	0.100	pass	
Spiromesifen	< LOQ	0.20	0.100	pass		Spirotetramat	< LOQ	0.20	0.100	pass	
Spiroxamine	< LOQ	0.40	0.200	pass		Tebuconazole	< LOQ	0.40	0.200	pass	
Thiacloprid	< LOQ	0.20	0.100	pass		Thiamethoxam	< LOQ	0.20	0.100	pass	
Trifloxystrobin	< LOQ	0.20	0.100	pass							



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Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.100	1908752	09/27/19	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.100	1908752	09/27/19	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.100	1908752	09/27/19	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.100	1908752	09/27/19	AOAC 2013.06 (mod.)	X



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

Units of Measure

cfu/g = Colony forming units per gram

g = Gram

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/7.37g = Milligram per 7.37g

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager