

# Certificate of Quality Assurance

**PRODUCT NAME:** 10 mg Softgels  
**PRODUCT STRENGTH:** 10 mg  
**LOT NUMBER:** SG10-T044  
**MANUFACTURER LOT NUMBER:** DR030519GC1  
**DATE OF MANUFACTURE:** 2/7/19  
*Expiration date is 18 months under sealed conditions.*  
**DATE OF ANALYSIS:** 2/11/19  
**ACTIVE INGREDIENT:** Phytocannabinoid-Rich Hemp Oil  
**INACTIVE INGREDIENTS:** Polysorbate Emulsifiers, MCT Oil, Beta Caryophyllene. **Gelatin Shell:** Bovine-derived Gelatin, Glycerin, Sorbitol and Water

# JOY<sup>TM</sup>

## ORGANICS

### Analysis Results for Finished Product\*

Attribute	Acceptance Criteria	Result
Appearance	Light Yellow Oval Soft Gelatin Capsule	Conforms
Aroma	Characteristic	Conforms
Cannabinoid Content	10 mg active per Capsule (95-110% of Target), THC Not Detected	Conforms
Microbial Testing	Total Aerobic Count <2000 cfu/g Total Yeast and Mold <200 cfu/g	Conforms

### Cannabinoid Potency\*

Cannabinoid	Weight %
CBD	1.64
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 %
$\beta$ -Bisabolene	1.0-3.0	Camphene	0.1-0.2
$\beta$ -Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Gualol	0.5-2.0	Farnesol	0.1-0.2
$\beta$ -Maaliene	0.5-2.0	$\alpha$ -Bisabolol	< 0.1
Calarene	0.5-1.5	p-Cymene	< 0.1
$\beta$ -Caryophyllene	0.1-1.0	Linalool	< 0.1
$\alpha$ -Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
$\alpha$ -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
$\alpha$ -Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	$\gamma$ -Terpinene	< 0.1
Eucalyptol	0.1-0.2	$\delta$ -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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JOY<sup>TM</sup>  
ORGANICS

## Heavy Metals\*\*

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

\* Transcribed from manufacturer COA.

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

Certified by:



Matthew Plenert, Ph.D  
Head Chemist and Quality Manager

4-25-19

Date



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

**Product identity:** SG10-T044  
**Laboratory ID:** 19-004096-0006

**Client/Metric ID:** .  
**Sample Date:** 03/13/19

**Summary**

**Potency:**

Analyte per 0.5g	Result	Limits	Units	LOQ	
CBD per 0.5g	10.8		mg/0.5g	0.0167	CBD-Total per 0.5g 10.8 mg/0.5g
CBDV per 0.5g†	0.0660		mg/0.5g	0.0167	THC-Total per 0.5g < 0.031 mg/0.5g
					(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:** SG10-T044  
**Client/Metric ID:** .  
**Sample Date:** 03/13/19  
**Laboratory ID:** 19-004096-0006  
**Temp:** 20.1 °C  
**Relinquished by:** Received by mail  
**Serving Size #1:** 0.5 g  
**Net volume:** 0.50 ml

### Sample Results

Potency per 0.5g		Batch: 1903325					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 0.5g <sup>†</sup>	< LOQ		mg/0.5g	0.0167	04/18/19	J AOAC 2015 V98-6	
CBC-A per 0.5g <sup>†</sup>	< LOQ		mg/0.5g	0.0167	04/18/19	J AOAC 2015 V98-6	
CBC-Total per 0.5g <sup>†</sup>	< LOQ		mg/0.5g	0.0313	04/18/19	J AOAC 2015 V98-6	
CBD per 0.5g	10.8		mg/0.5g	0.0167	04/18/19	J AOAC 2015 V98-6	
CBD-A per 0.5g	< LOQ		mg/0.5g	0.0167	04/18/19	J AOAC 2015 V98-6	
CBD-Total per 0.5g	10.8		mg/0.5g	0.0313	04/18/19	J AOAC 2015 V98-6	
CBDV per 0.5g <sup>†</sup>	0.0660		mg/0.5g	0.0167	04/18/19	J AOAC 2015 V98-6	
CBDV-A per 0.5g <sup>†</sup>	< LOQ		mg/0.5g	0.0167	04/18/19	J AOAC 2015 V98-6	
CBDV-Total per 0.5g <sup>†</sup>	0.0660		mg/0.5g	0.0311	04/18/19	J AOAC 2015 V98-6	
CBG per 0.5g <sup>†</sup>	< LOQ		mg/0.5g	0.0167	04/18/19	J AOAC 2015 V98-6	
CBG-A per 0.5g <sup>†</sup>	< LOQ		mg/0.5g	0.0167	04/18/19	J AOAC 2015 V98-6	
CBG-Total per 0.5g <sup>†</sup>	< LOQ		mg/0.5g	0.0313	04/18/19	J AOAC 2015 V98-6	
CBL per 0.5g <sup>†</sup>	< LOQ		mg/0.5g	0.0167	04/18/19	J AOAC 2015 V98-6	
CBN per 0.5g	< LOQ		mg/0.5g	0.0167	04/18/19	J AOAC 2015 V98-6	
Δ8-THC per 0.5g <sup>†</sup>	< LOQ		mg/0.5g	0.0167	04/18/19	J AOAC 2015 V98-6	
Δ9-THC per 0.5g	< LOQ		mg/0.5g	0.0167	04/18/19	J AOAC 2015 V98-6	
THC-A per 0.5g	< LOQ		mg/0.5g	0.0167	04/18/19	J AOAC 2015 V98-6	
THC-Total per 0.5g	< LOQ		mg/0.5g	0.0313	04/18/19	J AOAC 2015 V98-6	
THCV per 0.5g <sup>†</sup>	< LOQ		mg/0.5g	0.0167	04/18/19	J AOAC 2015 V98-6	
THCV-A per 0.5g <sup>†</sup>	< LOQ		mg/0.5g	0.0167	04/18/19	J AOAC 2015 V98-6	
THCV-Total per 0.5g <sup>†</sup>	< LOQ		mg/0.5g	0.0311	04/18/19	J AOAC 2015 V98-6	



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**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1903111	04/14/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1903111	04/14/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1903110	04/16/19	AOAC 997.02 (Petrifilm)	X
Yeast	< LOQ		cfu/g	10	1903110	04/16/19	AOAC 997.02 (Petrifilm)	X

**Pesticides Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 1903195 Analyze 04/16/19 10:44 AM**

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	
Bifentazate	< 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	0.0485	1903274	04/17/19	AOAC 2013.06	X
Cadmium	< LOQ		mg/kg	0.0485	1903274	04/17/19	AOAC 2013.06	X
Lead	< LOQ		mg/kg	0.0485	1903274	04/17/19	AOAC 2013.06	X
Mercury	< LOQ		mg/kg	0.0243	1903274	04/17/19	AOAC 2013.06	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

mg/0.5g = Milligram per 0.5g

ml = Milliliter

% = Percentage of sample

% wt =  $\mu\text{g/g}$  divided by 10,000

**Glossary of Qualifiers**

X: Not ORELAP accredited.

Approved Signatory

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Derrick Tanner  
General Manager