



## Certificate of Quality Assurance

**Product Name:** Organic CBD Gummy - Apple

**Lot #:** 0325191

**Batch #:** 032519AG1

**Date of Manufacture:** 03/25/19

**Active Ingredients:** THC-Free Phytocannabinoid-Rich Hemp Oil, CBD Isolate

**Inactive Ingredients:** Organic Apple Juice, Organic Agave, Pectin, Stevia, Citric Acid, Organic Coconut Oil,

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Brown colored Semi-circle shaped gummy.	Conforms	QC0002
Odor	Sweet -The contents smell similar to Apple juice	Conforms	QC0002
Color	Brown, Amber	Conforms	QC0002
Dissolution	Gummies are homogenous	Conforms	QC0002
Cannabinoid Content	20mg CBD/gummy	24mg CBD/gummy Conforms	QC0001
Microbial Testing	Total Aerobic Count <2000 CFU	<LOQ Conforms	QC0003

Package	Acceptance Criteria	Results
Primary Package	Container is clean on the outside and cap screwed on tight. No cracks or breaks. Tamper evident seal is apparent.	Conforms
Secondary Package	Sturdy and clean. Not ripped, punctured, or torn.	Conforms



## CERTIFICATE OF QUALITY ASSURANCE

**PRODUCT NAME:** THC-Free Phytocannabinoid-Rich Hemp Oil

**PRODUCT CODE:** NO-5kg-BULK

**LOT NUMBER:** MRV040319B2 (Sales Order# NESS-009-ZE-A, Total of 5,050 g cannabinoids, Total of 5,939.1 g Oil)

**OIL BATCH NUMBER:** CONO19-43

**DATE OF MANUFACTURE:** 08Mar2019

*Expiration date is 24 months under sealed conditions.*

**ACTIVE INGREDIENT:** THC-Free Phytocannabinoid-Rich Hemp Oil

**INACTIVE INGREDIENTS:** N/A

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Viscous Amber Oil Possible Crystal Formation	Conforms	QCU002
Odor	Characteristic	Conforms	QCU002
Color	Dark Amber	Conforms	QCU002
Dissolution	Not cloudy or turbid, characteristic color	Conforms	QCU002
Cannabinoid Content	80% total Phytocannabinoids, THC - report results	85.03% total Phytocannabinoids, THC Not Detected	QCU001
Microbial Testing	Total Aerobic Count <2000 CFU/g Total Yeast & Mold <200 CFU/g	Conforms	USP<2021>

Package	Acceptance Criteria	Results
Primary Package	Container dedusted and wiped clean. Container caps screwed on tight	Conforms
Secondary Package	Carton Sturdy and clean. Sufficient cushion material exists. Carton taped on all sides	Conforms

**Note:** When sampling, manufacturing, or formulating with this oil, the oil MUST first be heated and liquefied at 70-75°C and mixed thoroughly. Attempting to sample the oil when it is in a semi-solid state will not result in accurate analytical results.

# JOY<sup>TM</sup>

## ORGANICS

TYPE: Phytocannabinoid-Rich Hemp Oil/ THC-free **TERPENE RESULTS\*:**

BATCH No: CONO19-43

Date of Manufacture: 08Mar2019

Date of Analysis: 22Mar2019

### POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	85.03	850.27
CBG	<0.03	<0.30
CBN	<0.03	<0.30
THC	ND**	ND**
CBC	<0.03	<0.30
THC-A	ND**	ND**
CBD-A	<0.03	<0.30
MAX THC	ND**	ND**
MAX CBD	85.03	850.27
TOTAL ACTIVE	85.03	850.27

### Residual Solvents\*:

Propane	Compliant with USP<467>	Pentane	Compliant with USP<467>
Isobutane	Compliant with USP<467>	Isopropanol	Compliant with USP<467>
Butane	Compliant with USP<467>	Hexane	Compliant with USP<467>
Ethanol	Compliant with USP<467>	Acetone	Compliant with USP<467>

### Heavy Metals\*:

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

	Wt. (%)		Wt. (%)
$\beta$ -Bisabolene	1.0-3.0	Camphene	0.1-0.2
$\beta$ -Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Guaiol	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

### Pesticides\*:

Acequinocyl	ND***	Spinosad	ND***
Pyrethrium	ND***	Spirotetramat	ND***
Spiromesifen	ND***	Bifenazate	ND***
Abamectin	ND***	Fenoxycarb	ND***
Imidacloprid	ND***	Paclbutrazol	ND***

Test ID: 0322195A

\*Batches are sent out regularly for testing, not all batches tested

\*\* ND = Not Detected using a validated high-performance liquid chromatography test method

\*\*\* Pesticides are tested by a third party lab, ND = Not Detected at the Reporting Limit (RL)

**SPECIAL NOTE:** Process enhancement has recently been implemented to remove excess pigmentation from the oil due to customer requests. While the color of the future oil batches will be golden to light amber, its composition and the broad spectrum characteristics remain unchanged.



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

**Product identity:** 20mg Gummy - 032519AG1      **Client/Metric ID:** .  
**Laboratory ID:** 19-003460-0001      **Sample Date:** 03/29/19 11:00

**Summary**

**Potency:**

Analyte per 3.7g	Result	Limits	Units	LOQ	
CBD per 3.7g	24.0		mg/3.7g	0.123	CBD-Total per 3.7g 24.1 mg/3.7g
					THC-Total per 3.7g < 0.232 mg/3.7g
					(Reported in milligrams per serving)

**Pesticides:**

All analytes passing and less than LOQ.

**Microbiology:**

Less than LOQ for all analytes.



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**Customer:** General Management LLC

**Product identity:** 20mg Gummy - 032519AG1

**Client/Metric ID:** .

**Sample Date:** 03/29/19 11:00

**Laboratory ID:** 19-003460-0001

**Relinquished by:** Received By Mail

**Temp:** 22.4 °C

**Serving Size #1:** 3.7 g

### Sample Results

Potency per 3.7g		Batch: 1902798					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 3.7g <sup>†</sup>	< LOQ		mg/3.7g	0.123	04/04/19	J AOAC 2015 V98-6	
CBC-A per 3.7g <sup>†</sup>	< LOQ		mg/3.7g	0.123	04/04/19	J AOAC 2015 V98-6	
CBC-Total per 3.7g <sup>†</sup>	< LOQ		mg/3.7g	0.232	04/04/19	J AOAC 2015 V98-6	
CBD per 3.7g	24.0		mg/3.7g	0.123	04/04/19	J AOAC 2015 V98-6	
CBD-A per 3.7g	< LOQ		mg/3.7g	0.123	04/04/19	J AOAC 2015 V98-6	
CBD-Total per 3.7g	24.1		mg/3.7g	0.232	04/04/19	J AOAC 2015 V98-6	
CBDV per 3.7g <sup>†</sup>	< LOQ		mg/3.7g	0.123	04/04/19	J AOAC 2015 V98-6	
CBDV-A per 3.7g <sup>†</sup>	< LOQ		mg/3.7g	0.123	04/04/19	J AOAC 2015 V98-6	
CBDV-Total per 3.7g <sup>†</sup>	< LOQ		mg/3.7g	0.230	04/04/19	J AOAC 2015 V98-6	
CBG per 3.7g <sup>†</sup>	< LOQ		mg/3.7g	0.123	04/04/19	J AOAC 2015 V98-6	
CBG-A per 3.7g <sup>†</sup>	< LOQ		mg/3.7g	0.123	04/04/19	J AOAC 2015 V98-6	
CBG-Total per 3.7g <sup>†</sup>	< LOQ		mg/3.7g	0.232	04/04/19	J AOAC 2015 V98-6	
CBL per 3.7g <sup>†</sup>	< LOQ		mg/3.7g	0.123	04/04/19	J AOAC 2015 V98-6	
CBN per 3.7g	< LOQ		mg/3.7g	0.123	04/04/19	J AOAC 2015 V98-6	
Δ8-THC per 3.7g <sup>†</sup>	< LOQ		mg/3.7g	0.123	04/04/19	J AOAC 2015 V98-6	
Δ9-THC per 3.7g	< LOQ		mg/3.7g	0.123	04/04/19	J AOAC 2015 V98-6	
THC-A per 3.7g	< LOQ		mg/3.7g	0.123	04/04/19	J AOAC 2015 V98-6	
THC-Total per 3.7g	< LOQ		mg/3.7g	0.232	04/04/19	J AOAC 2015 V98-6	
THCV per 3.7g <sup>†</sup>	< LOQ		mg/3.7g	0.123	04/04/19	J AOAC 2015 V98-6	
THCV-A per 3.7g <sup>†</sup>	< LOQ		mg/3.7g	0.123	04/04/19	J AOAC 2015 V98-6	
THCV-Total per 3.7g <sup>†</sup>	< LOQ		mg/3.7g	0.230	04/04/19	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	1902705	04/03/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1902705	04/03/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1902704	04/03/19	AOAC 2014.05 (RAPID)	X
Yeast	< LOQ		cfu/g	10	1902704	04/03/19	AOAC 2014.05 (RAPID)	X

**Pesticides** Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 1902746 Analyze 04/02/19 08:59 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		Etoxazol	< LOQ	0.20	0.100	pass	
Fenoxycarb	< LOQ	0.20	0.100	pass		Fenpyroximat	< LOQ	0.40	0.200	pass	
Fipronil	< LOQ	0.40	0.200	pass		Flonicamid	< 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	
Spiroxamin	< LOQ	0.40	0.200	pass		Tebuconazol	< 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							

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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**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.

**Units of Measure**

cfu/g = Colony forming units per gram

g = Gram

mg/kg = Milligram per kilogram

mg/3.7g = Milligram per 3.7g

% = 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