

# CONFIDENTIAL EXTRACTOR

## CERTIFICATE OF QUALITY ASSURANCE

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

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

**LOT NUMBER:** MRV030419B2 (Sales Order# TOSM-021-JK-H, Total of 5,100 g cannabinoids, Total of 5,803.4 g Oil)

**OIL BATCH NUMBER:** CONO19-24

**DATE OF MANUFACTURE:** 21Feb2019

*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	87.88% 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.

**Storage:** Room Temperature, Protect from Light

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## CERTIFICATE OF INTERNAL ANALYSIS

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

BATCH No: CONO19-24

Date of Manufacture: 21Feb2019

Date of Analysis: 21Feb2019

### POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	87.83	878.34
CBG	0.05	0.47
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	87.83	878.34
TOTAL ACTIVE	87.88	878.80

### 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***	Paclobutrazol	ND***

Test ID: 022119EJ

\*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 full spectrum characteristics remain unchanged.



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

**Product identity:** TNAT500-T039  
**Laboratory ID:** 19-003951-0001

**Client/Metric ID:** .  
**Sample Date:** 03/27/19

**Summary**

**Potency:**

Analyte per 27.6g	Result	Limits	Units	LOQ	
CBD per 27.6g	558		mg/27.6g	27.6	CBD-Total per 27.6g 558 mg/27.6g
					THC-Total per 27.6g < 51.888 mg/27.6g
					(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:** TNAT500-T039  
**Client/Metric ID:** .  
**Sample Date:** 03/27/19  
**Laboratory ID:** 19-003951-0001  
**Relinquished by:** Received By Mail  
**Temp:** 15.7 °C  
**Net volume:** 30.00 ml  
**Serving Size #1:** 27.6 g

### Sample Results

Potency per 27.6g		Batch: 1903130					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 27.6g <sup>†</sup>	< LOQ		mg/27.6g	27.6	04/12/19	J AOAC 2015 V98-6	
CBC-A per 27.6g <sup>†</sup>	< LOQ		mg/27.6g	27.6	04/12/19	J AOAC 2015 V98-6	
CBC-Total per 27.6g <sup>†</sup>	< LOQ		mg/27.6g	51.9	04/12/19	J AOAC 2015 V98-6	
CBD per 27.6g	558		mg/27.6g	27.6	04/12/19	J AOAC 2015 V98-6	
CBD-A per 27.6g	< LOQ		mg/27.6g	27.6	04/12/19	J AOAC 2015 V98-6	
CBD-Total per 27.6g	558		mg/27.6g	51.9	04/12/19	J AOAC 2015 V98-6	
CBDV per 27.6g <sup>†</sup>	< LOQ		mg/27.6g	27.6	04/12/19	J AOAC 2015 V98-6	
CBDV-A per 27.6g <sup>†</sup>	< LOQ		mg/27.6g	27.6	04/12/19	J AOAC 2015 V98-6	
CBDV-Total per 27.6g <sup>†</sup>	< LOQ		mg/27.6g	51.6	04/12/19	J AOAC 2015 V98-6	
CBG per 27.6g <sup>†</sup>	< LOQ		mg/27.6g	27.6	04/12/19	J AOAC 2015 V98-6	
CBG-A per 27.6g <sup>†</sup>	< LOQ		mg/27.6g	27.6	04/12/19	J AOAC 2015 V98-6	
CBG-Total per 27.6g <sup>†</sup>	< LOQ		mg/27.6g	51.9	04/12/19	J AOAC 2015 V98-6	
CBL per 27.6g <sup>†</sup>	< LOQ		mg/27.6g	27.6	04/12/19	J AOAC 2015 V98-6	
CBN per 27.6g	< LOQ		mg/27.6g	27.6	04/12/19	J AOAC 2015 V98-6	
Δ8-THC per 27.6g <sup>†</sup>	< LOQ		mg/27.6g	27.6	04/12/19	J AOAC 2015 V98-6	
Δ9-THC per 27.6g	< LOQ		mg/27.6g	27.6	04/12/19	J AOAC 2015 V98-6	
THC-A per 27.6g	< LOQ		mg/27.6g	27.6	04/12/19	J AOAC 2015 V98-6	
THC-Total per 27.6g	< LOQ		mg/27.6g	51.9	04/12/19	J AOAC 2015 V98-6	
THCV per 27.6g <sup>†</sup>	< LOQ		mg/27.6g	27.6	04/12/19	J AOAC 2015 V98-6	
THCV-A per 27.6g <sup>†</sup>	< LOQ		mg/27.6g	27.6	04/12/19	J AOAC 2015 V98-6	
THCV-Total per 27.6g <sup>†</sup>	< LOQ		mg/27.6g	51.6	04/12/19	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	1903028	04/12/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1903028	04/12/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1903029	04/14/19	AOAC 997.02 (Petrifilm)	X
Yeast	< LOQ		cfu/g	10	1903029	04/14/19	AOAC 997.02 (Petrifilm)	X

**Pesticides**

**Method** AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 1903080 **Analyze** 04/11/19 10:57 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							



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Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.0496	1903183	04/15/19	AOAC 2013.06	X
Cadmium	< LOQ		mg/kg	0.0496	1903183	04/15/19	AOAC 2013.06	X
Lead	< LOQ		mg/kg	0.0496	1903183	04/15/19	AOAC 2013.06	X
Mercury	< LOQ		mg/kg	0.0248	1903183	04/15/19	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.

**Units of Measure**

cfu/g = Colony forming units per gram

g = Gram

mg/kg = Milligram per kilogram

mg/27.6g = Milligram per 27.6g

ml = Milliliter

% = Percentage of sample

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

**Glossary of Qualifiers**

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner  
General Manager