

# Certificate of Quality Assurance

**PRODUCT NAME:** Tranquil Mint Tincture

**PRODUCT STRENGTH:** 1500 mg

**LOT NUMBER:** TM1500-386

**OIL BATCH NUMBER:** CON018-100

**DATE OF MANUFACTURE:** 1/2/19

*Expiration date is 18 months under sealed conditions.*

**DATE OF ANALYSIS:** 1/2/19

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

**INACTIVE INGREDIENTS:** Grapeseed Oil, Hempseed Oil, Peppermint Essential Oil, Stevia



**MD 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

## 1 Potency of Raw Hemp Oil

Cannabinoid	Weight %
CBD	92.82
CBG	ND
CBN	ND
THC	ND
CBC	ND
THC-A	ND
CBD-A	ND

## 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>

# Certificate of Quality Assurance

**PRODUCT NAME:** Tranquil Mint Tincture

**PRODUCT STRENGTH:** 1500 mg

**LOT NUMBER:** TM1500-386

**OIL BATCH NUMBER:** CON018-100

**DATE OF MANUFACTURE:** 1/2/19

*Expiration date is 18 months under sealed conditions.*

**DATE OF ANALYSIS:** 1/2/19

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

**INACTIVE INGREDIENTS:** Grapeseed Oil, Hempseed Oil, Peppermint Essential Oil, Stevia

## 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	Clear Colorless to Light Yellow Liquid	Conforms
Aroma	Characteristic Mint Flavor	Conforms
Cannabidiol Content	95% to 110% of Label Claim	Conforms
THC Content	None Detected	Conforms

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

Certified by:



Matthew Plenert, Ph.D  
Head Chemist and Quality Manager

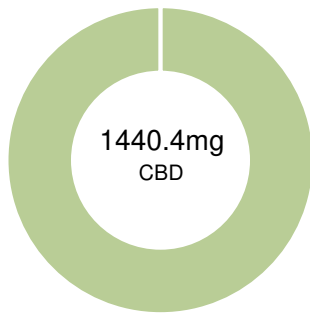
1-21-19

Date

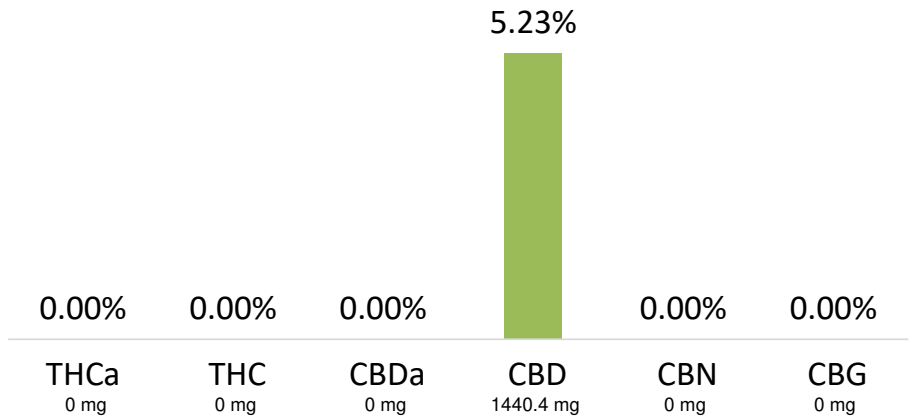
Tincture 1500 Tranquil Mint

<b>Batch ID:</b>	TM1500-386	<b>Test ID:</b>	2024442.007
<b>Reported:</b>	27-Feb-2019	<b>Method:</b>	TM01
<b>Type:</b>	Edible		
<b>Test:</b>	Potency		

CANNABINOID PROFILE



- Total Potential THC 0mg \*\*
- Total Potential CBD 1440.4mg \*\*



\*\* 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))

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

NOTES:

Free from visual mold, mildew, and foreign matter.  
# of Servings = 1, Sample/Fill Weight = 27.5292g

FINAL APPROVAL

  
Sam Smith  
27-Feb-2019  
12:41 PM

  
David Green  
27-Feb-2019  
1:45 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Services, LLC, in the condition it was received. Botanacor Services, LLC 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. This report may not be reproduced, except in full, without the written approval of Botanacor Services, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02






Certificate #4329.02

**MICROBIAL LABORATORY REPORT**

Customer Name:	Triple C Ranch Ltd (Result Group)	Product Name:	Tincture 1500 Tranquil Mint
Customer License:	403H-75142	Product Type:	Liquid Edible
Batch Number:	TM1500-386	Sample ID:	297469
METRC Tag:	1A4000712681366000000668	Date Received:	02/08/2019
Instrument Name:	Microbial Lab	Test Date:	02/12/2019
		Report Date:	02/12/2019

MICROBIAL CONTAMINATION \*

	STEC	ND
	Salmonella	ND
	Total Yeast & Molds	ND cfu/g

Notes:

- \* None Detected (ND) because the compound was not detected.
- \* Microbial Contamination (SOPs 029, 030, 039)
- \* Sample Condition deemed acceptable upon receipt by PhytaTech. Sampling done by outside party.
- \* E. coli & Salmonella measured using qPCR. Total Yeast & Mold (TYMC) is a plating technique. The regulatory limit for TYMC is 10,000 cfu/g or 10<sup>4</sup>. CFU/g = colony forming unit per gram.

  
**Stephen Goldman**  
Laboratory Director



**PESTICIDES LABORATORY REPORT**

Customer Name: Triple C Ranch Ltd (Result Group)      Product Name: Tincture 1500 Tranquil Mint  
Customer License: 403H-75142      Product Type: Liquid Edible  
Batch Number: TM1500-386      Sample ID: 297469  
METRC Tag: 1A4000712681366000000668      Date Received: 02/08/2019  
Instrument Name: HPLC 1050      Test Date: 02/12/2019  
Report Date: 02/12/2019

PESTICIDE	ppb
■ Abamectin	ND*
■ Avermectin B1b	ND*
■ Azoxystrobin	ND*
■ Bifenazate	ND*
■ Etoxazole	ND*
■ Imazalil	ND*
■ Imidacloprid	ND*
■ Malathion A	ND*
■ Myclobutanil	ND*
■ Cis Permethrin	ND*
■ Trans Permethrin	ND*
■ Spinosyn A	ND*
■ Spinosyn D	ND*
■ Spiromesifen	ND*
■ Spirotetramat	ND*
■ Tebuconazole	ND*

Notes:

\* None Reported (NR) because the compound exists at or below the detection limit of the method.

\* None Detected (ND) because the compound was not detected.



**Stephen Goldman**  
Laboratory Director



# PHYTATECH™

## M E T R I C S & S O L U T I O N S

879 Federal Blvd.  
 Denver, CO 80204  
 303-427-2379  
 DOR#: 405R-00011 & 405-00008  
 info@phytatech.com

Date Received: 02.08.2019  
 Date Lab Test: 02.12.2019  
 Date Reported: 02.13.2019

Company Name: Triple C Ranch Ltd  
 Company License: 403H-75142  
 Sample Type: Tinctures & Softgels

\*ND: None Detected or below reportable threshold  
 All data in the following table is in parts per million (ppm).

Sample	Sample	METRC #	Arsenic	Lead	Cadmium	Mercury
500 Natural	297460	00659	ND	ND	ND	ND
500 Orange	297461	00660	ND	ND	ND	ND
1000 Natural	297462	00661	ND	ND	ND	ND
10 mg softgels	297463	00662	ND	ND	ND	ND
1000 Natural	297464	00663	ND	ND	ND	ND
500 Lemon	297465	00664	ND	ND	ND	ND
25 mg Melatonin softgels	297466	00665	ND	ND	ND	ND
25 mg softgels	297467	00666	ND	ND	ND	ND
25 mg Curcumin softgels	297468	00667	ND	ND	ND	ND
1500 Tranquil Mint	297469	00668	ND	ND	ND	ND
1000 Tranquil Mint	297470	00669	ND	ND	ND	ND
1500 Tranquil Mint	297471	00670	ND	ND	ND	ND

NOTES: The State of Colorado mandates the following levels for heavy metals: Lead (1 ppm), Arsenic (0.4 ppm), Cadmium (0.4 ppm), and Mercury (0.2 ppm). This testing is for R&D purposes only.