Certificate of Quality Assurance

PRODUCT NAME: Tranquil Mint Tincture

PRODUCT STRENGTH: 1500 MG LOT NUMBER: TM1500-T088 OIL BATCH NUMBER: CONO19-73 DATE OF MANUFACTURE: 5/23/2019

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 5/23/2019

ACTIVE INGREDIENT: Phytocannabionoid-Rich Hemp Oil

INACTIVE INGREDIENTS: Grapeseed Oil, Hempseed Oil, Peppermint Oil



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

I Potency of Raw Hemp Oil

Cannabinoid	Weight %
CBD	83.58
CBG	<0.03
CBN	<0.03
THC	ND
СВС	<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>
sopropanol	Compliant with USP<467>
Pentane	Compliant with USP<467>

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ACTIVE INGREDIENT: Phytocannabionoid-Rich Hemp Oil

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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

Date

Tincture

Cannalysis Clackamas 14625 SE 82nd Drive Clackamas, OR 9

Cloud Labs CERTIFICATE OF ANALYSIS



SAMPLE INFORMATION

Sample Name: TM1500T0 Sample Matrix:

Sample Id: 91890 Collected: 05/31/2019 09:58

 Received:
 05/31/2019 10:28
 Serving Size:
 30 mL

 Servings Per Pkg:
 1
 Density:
 0.917 mg/ml

Overall Result: Pass

City:

MANUFACTURER INFO

Business Name: MyCBDTest Street Address:

State:

Zip Code: 80524 License:

MICROBIAL ECOLI ANALYSIS

TEST TYPE RESULT:

Pass

UNIT OF MEASUREMENT: Colony Forming Unit(CFU)

ANALYTE RESULT LOD LLOQ ACTION LEVEL ANALYTE RESULT LOD LLOQ ACTION LEVEL

Ecoli ND 0.0 0.0 100.0 Pass

ADDITIONAL INFORMATION

 Method:
 OR-SOP-TECH-006
 Sample Prepped
 05/31/2019 13:00
 Sample Approved
 06/01/2019 14:28

Instrument: Sample Analyzed 06/01/2019 09:20

MICROBIAL SALMONELLA ANALYSIS

TEST TYPE RESULT: Pass

UNIT OF MEASUREMENT: Colony Forming Unit(CFU)

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ANALYTE RESULT LOD LLOQ ACTION LEVEL ANALYTE RESULT LOD LLOQ ACTION LEVEL

Salmonella ND 0.0 0.0 Pass

ADDITIONAL INFORMATION

Method: OR-SOP-TECH-008 Sample Prepped 05/31/2019 13:00 Sample Approved 06/01/2019 17:08

Instrument: Sample Analyzed 06/01/2019 09:20

Page 1 of 3 Sample ID: 91890 CofA Document#: COA-00036391 | Exp: 06/10/2020

FOR R&D USE

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OCloud Labs CERTIFICATE OF ANALYSIS



CANNABINOID ANALYSIS

• Total THC,CBD value(s) have been decarboxylated.

TOTAL THC: 0.0 mg per serving (0.0 mg/mL) (0.0 %)1441 mg per serving (48.03 mg/mL) (5.238 %) TOTAL CBD: TOTAL CANNABINOIDS: 1441 mg per serving (48.03 mg/mL) (5.238 %)

TEST TYPE RESULT:

UNIT OF MEASUREMENT: Milligrams per Milliliter(mg/mL)

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
D9THC	ND	0.0	0.0	D8THC	ND	0.0	0.0
THCa	ND	0.0	0.0	CBG	ND	0.0	0.0
CBN	ND	0.0	0.0	CBD	47.69 mg/mL (5.201 %)	0.0	0.0
CBDa	ND	0.0	0.0	CBGa	ND	0.0	0.0
THCv	ND	0.0	0.0	CBC	ND	0.0	0.0
CBDv	0.3342 mg/ml (0.0365	%)00	0.0				

ADDITIONAL INFORMATION

SOP-LAB-001 05/31/2019 16:10 Sample Prepped 05/31/2019 14:34 Sample Approved HPLC-DAD Sample Analyzed 05/31/2019 14:35 Instrument:



CHEMICAL RESIDUE ANALYSIS

TEST TYPE RESULT:

UNIT OF MEASUREMENT: Parts per Million(PPM)

ANALYTE	RESULT	LOD	LLOQ	ACTION	LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION	LEVEL
Acephate	ND	0.0050	0.0125	0.4000	Pass	Acequinocyl	ND	0.1250	0.2500	2.000	Pass
Acetamiprid	ND	0.0050	0.0625	0.2000	Pass	Aldicarb	ND	0.0050	0.0250	0.4000	Pass
Azoxystrobin	ND	0.0050	0.0125	0.2000	Pass	Bifenazate	ND	0.0050	0.0125	0.2000	Pass
Bifenthrin	ND	0.0050	0.0625	0.2000	Pass	Boscalid	<ll0q< td=""><td>0.0050</td><td>0.0625</td><td>0.4000</td><td>Pass</td></ll0q<>	0.0050	0.0625	0.4000	Pass
Carbaryl	ND	0.0125	0.1250	0.2000	Pass	Carbofuran	ND	0.0050	0.0250	0.2000	Pass
Chlorantraniliprole	ND	0.0125	0.0625	0.2000	Pass	Chlorfenapyr	ND	0.0250	0.0625	1.000	Pass
Chlorpyrifos	ND	0.0050	0.0250	0.2000	Pass	Clofentezine	ND	0.0050	0.0250	0.2000	Pass
Cypermethrin	ND	0.0250	0.0625	1.000	Pass	Daminozide	ND	0.0050	0.0250	1.000	Pass
Dichlorvos	ND	0.0250	0.0625	0.1000	Pass	Diazinon	ND	0.0050	0.0125	0.2000	Pass
Dimethoate	ND	0.0050	0.0125	0.2000	Pass	Ethoprophos	ND	0.0050	0.0250	0.2000	Pass
Etofenprox	ND	0.0050	0.0125	0.4000	Pass	Etoxazole	ND	0.0050	0.0625	0.2000	Pass
Fenoxycarb	ND	0.0050	0.0250	0.2000	Pass	Fenpyroximate	ND	0.0625	0.6250	0.4000	Pass
Fipronil	ND	0.1250	0.1875	0.4000	Pass	Flonicamid	ND	0.0050	0.0125	1.000	Pass
Fludioxonil	ND	0.0250	0.0625	0.4000	Pass	Hexythiazox	ND	0.0050	0.0250	1.000	Pass
Imazalil	ND	0.0050	0.0125	0.2000	Pass	Imidacloprid	ND	0.0050	0.0625	0.4000	Pass
KresoximMethyl	ND	0.0250	0.0625	0.4000	Pass	Malathion	ND	0.0050	0.0250	0.2000	Pass
Metalaxyl	ND	0.0050	0.0125	0.2000	Pass	Methiocarb	ND	0.0050	0.0125	0.2000	Pass
Methomyl	ND	0.0050	0.0250	0.4000	Pass	MethylParathion	ND	0.1250	0.0250	0.2000	Pass



Page 2 of 3

CofA Document#: COA-00036391 | Exp: 06/10/2020 Sample ID: 91890

FOR R&D USE

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Cloud Labs **CERTIFICATE OF ANALYSIS**

Myclobutanil	ND	0.0050	0.0625	0.2000	Pass	Naled	ND	0.0125	0.0625	0.5000	Pass
Oxamyl	ND	5.00E-6	1.25E-5	0.0010	Pass	Paclobutrazol	ND	0.0050	0.0250	0.4000	Pass
Phosmet	ND	0.0050	0.0125	0.2000	Pass	PiperonylButoxide	ND	0.0050	0.0625	2.000	Pass
Prallethrin	ND	0.0250	0.0625	0.2000	Pass	Propoxur	ND	0.0050	0.0250	0.2000	Pass
Pyridaben	ND	0.0050	0.0250	0.2000	Pass	Spiromesifen	ND	0.0625	0.6250	0.2000	Pass
Spirotetramat	ND	0.0050	0.0625	0.2000	Pass	Spiroxamine	ND	0.0050	0.0250	0.4000	Pass
Tebuconazole	0.0137 PPM	0.0050	0.0125	0.4000	Pass	Thiacloprid	ND	0.0050	0.0625	0.2000	Pass
Thiamethoxam	ND	0.0050	0.0125	0.2000	Pass	Trifloxystrobin	ND	0.0050	0.0250	0.2000	Pass
Abamectin	ND	4.851	0.1288	0.5000	Pass	Cyfluthrin	ND	0.0625	0.1250	1.000	Pass
MGK-264	ND	0.0050	0.0625	0.2000	Pass	Permethrins	ND	0.0050	0.0408	0.2000	Pass
Propiconazole	ND	0.0051	0.0494	0.4000	Pass	Pyrethrins	ND	0.0220	0.1006	1.000	Pass
Spinosad	ND	0.0050	0.0230	0.2000	Pass						
ADDITIONAL INFORM	ATION										

05/31/2019 16:23 Method: SOP Sample Approved Sample Prepped Instrument: Sample Analyzed 05/31/2019 13:01

This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented, or abstracted in any manner. Any violation of these conditions renders the report and its results void.

All LQC samples required by state regulations were performed and met the acceptance criteria.

DATA REVIEWED AND APPROVED BY

Stacey Anderson, PhD

Lab Director

06/10/2019





Certificate of Analysis

June 03, 2019

JOY ORGANICS Order No. 506544
Attn: Darcie Moran Sample No. 1027632

1301 Blue Spruce Drive, Suite B-1

Fort Collins, CO 80521

SAMPLE INFORMATION

DescriptionMint TinctureLot NumberTM1500 T088

Category (Type) Orally Consumed Concentrate (Tincture)

Received May 31, 2019

ANALYTICAL RESULTS

Analysis Heavy Metal Screen

✓ Pass

Instrument ICP-MS Method MF 24E020

Analysis Date May 31, 2019 to June 03, 2019

Analyte	LOD / LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
Arsenic	0.02/0.05	ND	1.5	Pass
Cadmium	0.02/0.05	ND	0.5	Pass
Lead	0.02/0.05	ND	0.5	Pass
Mercury	0.02/0.05	ND	3.0	Pass

Reported by ND = None Detected

<LOQ = Below Limit of Quantitation

<LOD = Below Limit of Detection

Yelena Bindman Senior Chemist

Anresco, Inc.

June 03, 2019