

Certificate of Quality Assurance

PRODUCT NAME: Natural Tincture
PRODUCT STRENGTH: 1000 mg
LOT NUMBER: TNAT1000-T012
OIL BATCH NUMBER: CON019-11
DATE OF MANUFACTURE: 3/4/19
Expiration date is 18 months under sealed conditions.
DATE OF ANALYSIS: 3/4/19
ACTIVE INGREDIENT: Phytocannabinoid-Rich Hemp Oil
INACTIVE INGREDIENTS: Grapeseed Oil, Hempseed Oil

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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

Potency of Raw Hemp Oil

Cannabinoid	Weight %
CBD	90.03
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 %
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>
Isopropanol	Compliant with USP<467>
Pentane	Compliant with USP<467>

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JOYTM
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>

Analysis Results for Finished Product

Attribute	Acceptance Criteria	Result
Appearance	Light Yellow to Green Liquid	Conforms
Aroma	Characteristic Hemp Odor	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

3-12-19

Date



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

Product identity: TNAT1000 T012
Laboratory ID: 19-004456-0001

Client/Metric ID: .
Sample Date:

Summary

Potency:

Analyte per 27.5g	Result	Limits	Units	LOQ	
CBD per 27.5g	1110		mg/27.5g	0.917	CBD-Total per 27.5g 1110 mg/27.5g
CBDV per 27.5g [†]	6.02		mg/27.5g	0.917	THC-Total per 27.5g < 1.722 mg/27.5
(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: TNAT1000 T012
Client/Metric ID: .
Sample Date:
Laboratory ID: 19-004456-0001
Relinquished by: Received By Mail
Temp: 22 °C
Serving Size #1: 27.5 g
Net volume: 30.00 ml

Sample Results

Potency per 27.5g		Batch: 1903588					
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 27.5g [†]	< LOQ		mg/27.5g	0.917	04/25/19	J AOAC 2015 V98-6	
CBC-A per 27.5g [†]	< LOQ		mg/27.5g	0.917	04/25/19	J AOAC 2015 V98-6	
CBC-Total per 27.5g [†]	< LOQ		mg/27.5g	1.72	04/25/19	J AOAC 2015 V98-6	
CBD per 27.5g	1110		mg/27.5g	0.917	04/25/19	J AOAC 2015 V98-6	
CBD-A per 27.5g	< LOQ		mg/27.5g	0.917	04/25/19	J AOAC 2015 V98-6	
CBD-Total per 27.5g	1110		mg/27.5g	1.72	04/25/19	J AOAC 2015 V98-6	
CBDV per 27.5g [†]	6.02		mg/27.5g	0.917	04/25/19	J AOAC 2015 V98-6	
CBDV-A per 27.5g [†]	< LOQ		mg/27.5g	0.917	04/25/19	J AOAC 2015 V98-6	
CBDV-Total per 27.5g [†]	6.02		mg/27.5g	1.71	04/25/19	J AOAC 2015 V98-6	
CBG per 27.5g [†]	< LOQ		mg/27.5g	0.917	04/25/19	J AOAC 2015 V98-6	
CBG-A per 27.5g [†]	< LOQ		mg/27.5g	0.917	04/25/19	J AOAC 2015 V98-6	
CBG-Total per 27.5g [†]	< LOQ		mg/27.5g	1.72	04/25/19	J AOAC 2015 V98-6	
CBL per 27.5g [†]	< LOQ		mg/27.5g	0.917	04/25/19	J AOAC 2015 V98-6	
CBN per 27.5g	< LOQ		mg/27.5g	0.917	04/25/19	J AOAC 2015 V98-6	
Δ8-THC per 27.5g [†]	< LOQ		mg/27.5g	0.917	04/25/19	J AOAC 2015 V98-6	
Δ9-THC per 27.5g	< LOQ		mg/27.5g	0.917	04/25/19	J AOAC 2015 V98-6	
THC-A per 27.5g	< LOQ		mg/27.5g	0.917	04/25/19	J AOAC 2015 V98-6	
THC-Total per 27.5g	< LOQ		mg/27.5g	1.72	04/25/19	J AOAC 2015 V98-6	
THCV per 27.5g [†]	< LOQ		mg/27.5g	0.917	04/25/19	J AOAC 2015 V98-6	
THCV-A per 27.5g [†]	< LOQ		mg/27.5g	0.917	04/25/19	J AOAC 2015 V98-6	
THCV-Total per 27.5g [†]	< LOQ		mg/27.5g	1.71	04/25/19	J AOAC 2015 V98-6	

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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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	pending						AOAC 991.14 (Petrifilm)	X
Total Coliforms	pending						AOAC 991.14 (Petrifilm)	X
Mold	pending						AOAC 2014.05 (RAPID)	X
Yeast	pending						AOAC 2014.05 (RAPID)	X

Pesticides

Method AOAC 2007.01 & EN 15662 (mod)						Units	Batch	Analyze 01/01/70 12:00 AM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	pending	0.50	0.250	pass		Acephate	pending	0.40	0.250	pass	
Acequinocyl	pending	2.0	1.00	pass		Acetamiprid	pending	0.20	0.100	pass	
Aldicarb	pending	0.40	0.200	pass		Azoxystrobin	pending	0.20	0.100	pass	
Bifentazate	pending	0.20	0.100	pass		Bifenthrin	pending	0.20	0.100	pass	
Boscalid	pending	0.40	0.100	pass		Carbaryl	pending	0.20	0.100	pass	
Carbofuran	pending	0.20	0.100	pass		Chlorantraniliprole	pending	0.20	0.100	pass	
Chlorfenapyr	pending	1.0	0.500	pass		Chlorpyrifos	pending	0.20	0.100	pass	
Clofentezine	pending	0.20	0.100	pass		Cyfluthrin (incl.	pending	1.0	0.500	pass	
Cypermethrin	pending	1.0	0.500	pass		Daminozide	pending	1.0	0.500	pass	
Diazinon	pending	0.20	0.100	pass		Dichlorvos	pending	1.0	0.500	pass	
Dimethoate	pending	0.20	0.100	pass		Ethoprophos	pending	0.20	0.100	pass	
Etofenprox	pending	0.40	0.200	pass		Etoazole	pending	0.20	0.100	pass	
Fenoxycarb	pending	0.20	0.100	pass		Fenpyroximate	pending	0.40	0.200	pass	
Fipronil	pending	0.40	0.200	pass		Flonicamid	pending	1.0	0.400	pass	
Fludioxonil	pending	0.40	0.200	pass		Hexythiazox	pending	1.0	0.400	pass	
Imazalil	pending	0.20	0.100	pass		Imidacloprid	pending	0.40	0.200	pass	
Kresoxim-methyl	pending	0.40	0.200	pass		Malathion	pending	0.20	0.100	pass	
Metalaxyl	pending	0.20	0.100	pass		Methiocarb	pending	0.20	0.100	pass	
Methomyl	pending	0.40	0.200	pass		MGK-264	pending	0.20	0.100	pass	
Myclobutanil	pending	0.20	0.100	pass		Naled	pending	0.50	0.250	pass	
Oxamyl	pending	1.0	0.500	pass		Paclbutrazole	pending	0.40	0.200	pass	
Parathion-Methyl	pending	0.20	0.200	pass		Permethrin	pending	0.20	0.100	pass	
Phosmet	pending	0.20	0.100	pass		Piperonyl butoxide	pending	2.0	1.00	pass	
Prallethrin	pending	0.20	0.100	pass		Propiconazole	pending	0.40	0.200	pass	
Propoxur	pending	0.20	0.100	pass		Pyrethrin I (total)	pending	1.0	0.500	pass	
Pyridaben	pending	0.20	0.100	pass		Spinosad	pending	0.20	0.100	pass	
Spiromesifen	pending	0.20	0.100	pass		Spirotetramat	pending	0.20	0.100	pass	
Spiroxamine	pending	0.40	0.200	pass		Tebuconazole	pending	0.40	0.200	pass	
Thiacloprid	pending	0.20	0.100	pass		Thiamethoxam	pending	0.20	0.100	pass	
Trifloxystrobin	pending	0.20	0.100	pass							



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Job Number: 19-004456
Report Number: 19-004456-00
Report Date: 04/25/2019
ORELAP#: OR100028
Purchase Order:
Received: 04/23/19 10:40

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Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	<i>pending</i>						AOAC 2013.06	X
Cadmium	<i>pending</i>						AOAC 2013.06	X
Lead	<i>pending</i>						AOAC 2013.06	X
Mercury	<i>pending</i>						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

g = Gram

mg/27.5g = Milligram per 27.5g

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